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PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved : over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts ; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months, have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included. Nor are British Standard Specifications (except bound volumes). Any inquiry regarding these should be made direct to the B.S.I., 24/28 Victoria Street, London, S.W.1.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols :

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

(*C*) Books of an advanced or specially technical character.

(*D*) Directories, dictionaries, handbooks, lists and catalogues, encyclopædias, year-books, and similar publications.

A title-page, classified table of contents, and index are issued with the last number of each volume.

The form of entry of references has been altered to comply with British Standard Specification 1629 : 1950.

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PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved: over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months, have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included. Nor are British Standard Specifications (except bound volumes). Any inquiry regarding these should be made direct to the B.S.I., 2 Park Street, London, W.1.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols:

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

(*C*) Books of an advanced or specially technical character.

(*D*) Directories, dictionaries, handbooks, lists and catalogues, encyclopædias, year-books, and similar publications.

A title-page, classified table of contents, and index are issued with the last number of each volume.

The form of entry of references has been altered to comply with British Standard Specification 1629 : 1950.

ASLIB BOOK-LIST

Volume 19 *Number 2* *February 1954*

GENERAL SCIENCE

MASON, S. F.

A history of the sciences: main currents of scientific thought. Routledge & K. Paul, 1953. pp.viii,520, biblicg. 28s. *(C) 87*

DOCUMENTATION

CRONE, G. R.

Maps and their makers: an introduction to the history of cartography. Hutchinson, 1953. pp.xiv,15–181, maps. 8s. 6d. *Hutchinson's university library, geography, eds. S. W. Wooldridge and W. G. East.* *(A) 88*

BIBLIOGRAPHY

SMITH, J. F.

Instrumentation literature and its use: a guide and source list; prepared under the general direction of the Technical Information Division, Library of Congress for the Office of Basic Instrumentation, National Bureau of Standards. Washington, the Bureau, 1953. pp.[4],129. [Unpriced.] *(D) 89*

UNITED STATES. Library of Congress. Reference Department *and*
UNITED STATES. Department of Commerce. Bureau of the Census

Statistical yearbooks; an annotated bibliography of the general statistical yearbooks of major political sub-divisions of the world; prepared by P. G. Carter. Washington, the Library, 1953. pp.viii,123. 90¢. *(D) 90*

LIBRARIANSHIP

AMERICAN LIBRARY ASSOCIATION. Board on Personnel Administration. Sub-committee on Bibliography

Personnel administration for libraries: a bibliographic essay; prepared by R. E. McCoy. Chicago, the Association; [Nottingham, Woolston Book Co.], 1953. pp.vi,97. $2.25 or 17s. *(B) 91*

SPECIAL LIBRARIES ASSOCIATION. Public Relations Committee

Our library. [New York], the Association, 1953. 15 plates. $10.00. [Visual presentation.] *(B) 92*

DIRECTORIES AND YEARBOOKS

[See *96*]

PHILOSOPHY

UNITED NATIONS ECONOMIC, SCIENTIFIC AND CULTURAL ORGANIZATION

The teaching of philosophy: an international enquiry of Unesco. 19 Ave. Kleber, Paris 16, Unesco; [London, H.M.S.O.]. pp.230. F. frs. 450, 9s. 6d. or $1.75. *(B) 93*

PSYCHOLOGY

SCOTTISH COUNCIL FOR RESEARCH IN EDUCATION. Mental Survey Committee

Social implications of the 1947 Scottish mental survey. University of London Press, 1953. pp.xxiii,356, tables, diagrs. 10s. 6d. *(C) 94*

[See also *103*]

SOCIAL SCIENCES

STATISTICS

LINDLEY, D. V., *and* **MILLER, J. C. P.**

Cambridge elementary statistical tables. Cambridge, C.U.P., 1953. pp.36, tables. 5s. *(D) 95*

[See also *90, 151*]

INTERNATIONAL RELATIONS

CARNEGIE ENDOWMENT FOR INTERNATIONAL PEACE

Institutes of international affairs. New York, the Endowment, 1953. pp.vii, 131. $1.25. *(D) 96*

ECONOMICS

LITTLE, I. M. D.

The price of fuel. Oxford, Clarendon Press, 1953. pp.xiv,197, tables, bibliog. 12s. 6d. *(B) 97*

SHIMKIN, D. B.

Minerals: a key to Soviet power. Cambridge (Mass.), Harvard U.P.; London, O.U.P., 1953. pp.[ii],452, maps, tables, bibliog. 52s. or $8.00. *Russian Research Center. Studies series—no. 9.* *(B) 98*

EDUCATION

BOYCE, E. R.

The first year in school. Nisbet, 1953. pp.ix,241, tables, bibliog. 12s. 6d. *(B) 99*

The **EDUCATION** committees year book 1953–1954. Councils & Education Press [1953]. pp.626, tables. 25s. *(D) 100*

GENERAL education in school and college : a committee report by members of the faculties of Andover, Exeter, Lawrenceville, Harvard, Princeton and Yale. Cambridge (Mass.), Harvard University Press; Oxford, O.U.P.; Toronto, S. J. R. Saunders, 1953. pp.142. $2.00, 12s. 6d. or Can. $2.75. *(B) 101*

KNOX, H. M.

Two hundred and fifty years of Scottish education, 1696–1946. Edinburgh, London, O. & B., 1953. pp.xiii,253, bibliog. 15s. *(B) 102*

NEILL, A. S.

The free child. Jenkins, 1953. pp.179, front. 9s. 6d. 'Contains the 1949 report of the Ministry of Education inspectors on Summerhill School, Leiston, Suffolk, of which the author is headmaster.' *(B) 103*

RICHMOND, W. K.

The rural school, its problems and prospects. Redman, 1953. pp.208, tables, diagrs. 9s. 6d. *(A) 104*

The **SCHOOLS** of England, Wales, Scotland and Ireland, with continental and special training sections, [1953]: a book of reference for parents and principals. Cheltenham, London, Burrow, [1953]. pp.513, illus., maps, tables. 6s. *(D) 105*

The **YEARBOOK** of education, 1953; joint editors, R. King Hall, N. Hans, J. A. Lauwerys. London, published in association with the University of London Institute of Education and Teachers College, Columbia University, New York, by Evans Bros., [1953]. pp.xii,587, tables. 63s. *(D) 106*

[See also *94*]

MATHEMATICS

McLACHLAN, N. W.

Complex variable theory and transform calculus with technical applications. 2nd. Cambridge, C.U.P., 1953. pp.xi,388, tables, diagrs., bibliog., index. 55s. 'Previous ed. 1939. First published under the title *Complex variable and operational calculus with technical applications.*' (*B*) *107*

[See also *95*, *171*]

CHEMISTRY

KETELAAR, J. A. A.

Chemical constitution: an introduction to the theory of the chemical bond; translated [from the Dutch] by L. C. Jackson. Amsterdam, London [etc.], Elsevier, 1953. pp.viii,398, tables, diagrs., bibliog. 40s. 'Originally published as *De chemische binding*. Amsterdam, Elsevier, 1947.' (*C*) *108*

SAMUELSON, O.

Ion exchangers in analytical chemistry. New York, Wiley; London, C. & H., 1953. pp.291, diagrs. 52s. or $6.50. (*C*) *109*

YOUNG, R. S.

Industrial inorganic analysis. C. & H., 1953. pp.viii,368, illus., tables, diagrs., bibliog. 36s. (*B*) *110*

PHYSICS

BROWN, J.

Microwave lenses, with a foreword by W. Jackson. London, Methuen; New York, Wiley, 1953. pp.xi,125, plates, tables, diagrs., bibliog. 8s. 6d. (*C*) *111*

HEISENBERG, W.

Nuclear physics; translated from the German by F. Gaynor and A. von Zeppelin, with the assistance of W. Wilson. Methuen, 1953. pp.ix,225, illus., tables, diagrs., bibliog. 12s. 6d. 'Originally published as *Die Physik der Atomkerne*. Braunschweig, Vieweg, 1949.' (*B*) *112*

WILSON, A. H.

The theory of metals. 2nd ed. Cambridge, C.U.P., 1953. pp.viii,346, tables, diagrs., bibliog. 45s. 'Previous ed. 1936.' (*C*) *113*

BOTANY

JAMES, W. O.

Plant respiration. Oxford, Clarendon Press, 1953. pp.ix,282, tables, diagrs., bibliog. 30s. (*B*) *114*

WEBB, D. A.

An Irish flora; with drawings by H. Parkes and P. Boatman. 2nd. rev. ed. Dundalk (Louth), Dundalgan Press, 1953. pp.xlii,250, illus., tables, bibliog. 13s. 6d. 'Previous ed. 1943.' (*B*) *115*

ZOOLOGY

KATZ, D.

Animals and men: studies in comparative psychology; a new translation [from the German], by H. Steinberg and A. Summerfield. Penguin, 1953. pp.192, plates, diagrs. 2s. *Pelican psychology series, ed. by A. J. Ayer.* 'This ed. translated from the rev. German ed., 1948.' (*A*) *116*

RIBBANDS, C. R.

The behaviour and social life of honeybees. 530 Salisbury House, London Wall, London, W.C.2, Bee Research Association, 1953. pp.352, front., illus., plates, tables, diagrs., bibliog. 21s. (*B*) *117*

TINBERGEN, N.

The herring gull's world: a study of the social behaviour of birds, illus. with 51 photographs taken by the author. Collins, 1953. pp.xvi,255, front., illus., plates, tables, diagrs., bibliog. 18s. *New naturalist monographs series, ed. by J. Fisher and others—no. 9.* (*B*) *118*

PUBLIC HEALTH

HOBBS, B. C.

Food poisoning and food hygiene. Edward Arnold, 1953. pp.x,174, illus., facsims., tables, diagrs. 14s. (*B*) *119*

PHARMACY

SPALTON, L. M.

Pharmaceutical emulsions and emulsifying agents. 2nd. ed. 28 Essex Street, Strand, London, W.C.2, *The Chemist and Druggist*, 1953. pp.vii,138, illus., tables, diagrs., index. 7s. 6d. 'Previous ed. 1949.' (*B*) *120*

VETERINARY SCIENCE

ADVANCES in veterinary science. Vol. 1, ed. by C. A. Brandly and E. L. Jungherr. New York, Academic Press, 1953. pp.441, illus., 1953. $9.00. (*B*) *121*

KRÁL, F., *and* **NOVAK, B. J.**

Veterinary dermatology; introd. by J. D. Deck. Philadelphia, Lippincott, 1953. pp.325, illus. $10.00. (*B*) *122*

ENGINEERING

TIMOSHENKO, S. P.

The collected papers of Stephen P. Timoshenko. McG.-H., [1953]. pp.xxv, 642, front., illus., tables, diagrs., bibliog. 140s. 'Contributions in French, German and English.' (*C*) *123*

MECHANICAL

PRITULA, V. A.

Cathodic protection of pipelines and storage tanks; translated from the Russian. H.M.S.O., 1953. pp.vi,160, tables, diagrs., bibliog. 10s. 'Originally published, Moscow, Chief Petroleum Marketing Organization of the Russian Ministry of the Petroleum Industry, 1950.' (*C*) *124*

WAKEFIELD, C. C. & CO. LTD. Wakefield-Dick Industrial Lubricants Division

Gear lubrication. C. C. Wakefield, 1953. pp.112, illus., plates, tables, diagrs. Gratis. (*B*) *125*

[See also *132*]

ELECTRICAL

BECK, A. H. W.

Thermionic valves, their theory and design. Cambridge, C.U.P., 1953. pp.xvi,570, tables, diagrs., bibliog. 60s. (*C*) *126*

ELECTRICAL COMMUNICATIONS

SANDEMAN, E. K.

Radio Engineering. Vol. 1. 2nd rev. ed. C. & H., 1953. pp.xxiv,779, tables, diagrs. 60s. 'Previous ed. 1947.' (*B*) *127*

INTERNAL COMBUSTION

CONSTANT, H.

Gas turbines and their problems. 2nd ed. Todd Publishing Group Ltd., 1953. pp.160, plates, diagrs. 17s. 6d. 'Sole British distributors: G. G. Harrap & Co. Ltd. Previous ed. 1948.' (*C*) *128*

Workshop Practice

DENT, R.

Production engineering for Higher National Certificate. [Vol. 2]: Jig and tool design. English U.P., 1953. pp.vi,227, illus., tables, diagrs. 18s. *Technical series, ed. by W. E. Fisher.* *(B) 129*

Civil

ASHBY, R. J., *and others*

Report on experimental investigation into the behaviour of angle purlins, ties, and struts. British Constructional Steelwork Association, 1953. pp.36, illus., tables, bibliog. Gratis. *British Constructional Steelwork Association. Publications—no. 7.* *(B) 130*

CAPPER, P. L., *and* **CASSIE, W. F.**

The mechanics of engineering soils. 2nd ed. Spon, 1953. pp.xvi,17–315, tables, diagrs., bibliog. 25s. [*Spon's civil engineering series.*] 'Previous ed. 1949.' *(B) 131*

INGLIS, R. A.

An introduction to railway engineering: a short textbook of the theory and practice of railway surveying, construction and signalling for the use of students and civil engineers; with a foreword by J. P. Paton. C. & H., 1953. pp.xiv,200, tables, diagrs., bibliog. 21s. *(B) 132*

Automobile

The **BRITISH** commercial vehicle industry: a comprehensive review of the products of British makers of commercial vehicle chassis, trailers, engines, bodies, components and equipment, which are offered for export to road transport operators and traders in overseas countries; comp. in association with the *Commercial Motor.* 4th ed. Temple Press, 1953. pp.vii,281, front., illus., tables, diagrs. 42s. 'Previous ed. 1951.' *(D) 133*

MOTOR CYCLING

Road tests: a selection of tests and impressions of current and recent models together with sidecar drawings and specifications. 2nd. Temple Press, 1953. pp.54, illus., tables, diagrs. 5s. 'Previous ed. 1952.' *(A) 134*

OSBORNE, B.

Motor Cycling electrical manual. Temple Press, 1953. pp.vii,128, illus., diagrs. 5s. *(A) 135*

Aeronautical

HOWARTH, L., *and others, eds.*

Modern developments in fluid dynamics: high speed flow; composed under the aegis of the Fluid Motion Sub-Committee of the Aeronautical Research Council and edited by L. Howarth, with the assistance of H. B. Squire and the late C. N. H. Lock. Oxford, Clarendon Press, 1953. 2 v. plates, tables, diagrs., bibliog. 84s. *Oxford engineering science series, ed. by E. B. Moullin and others.* *(C) 136*

SLOLEY, R. W., *and* **COULTHARD, W. H.**

Instruments: repair, overhaul, testing and calibration of aircraft and aero-engine instruments; adjustment, installation, and compensation of compasses in aircraft: category 'X' licence. 6th ed. Pitman, 1953. pp.xii,251, front., illus., tables, diagrs. 30s. *Aircraft engineer's handbooks series—no. 4.* 'Previous ed. 1944.' *(B) 137*

SPELLER, W. J. C.

Airframe structure and controls, flying instruments and equipment. Pitman, 1953. pp.x,292, illus., tables, diagrs. 30s. *Aircraft engineer's handbooks series, ed. by Wing-Commander C. G. Burge—no. 1.* *(B) 138*

WILKINSON, P.

Aircraft engines of the world. 225 Varick Street, New York, 4, the Author, 1953. pp.320, illus. $12.00. *(D) 139*

[See also *128*]

AGRICULTURE

McCONNELL, P., *comp.*

The agricultural notebook: facts and figures for farmers, students and all engaged or interested in farming. 12th ed. [completely re-written and enlarged under the editorship of H. I. Moore]. *Farmer and Stockbreeder*, 1953. pp.15,784, maps, tables. 30s. 'Previous ed. published as *Note-book of agricultural facts and figures*. C. Lockwood, 1930.' *(D) 140*

Crops

MUNTONA, LTD., *and* **FISON, EDWARD, LTD.**

The production of barley for malting; prepared and presented by Muntona Ltd. and Edward Fison Ltd. Bedford, Muntona; Ipswich, Fison, 1953. pp.26, plate, tables, bibliog. [Unpriced.] *Monographs on malt and malt products series.* *(A) 141*

BROWN, C. H.

Egyptian cotton; with a foreword by Sir R. Lacey. L. Hill, 1953. pp.xi,174, front., plates, tables, diagrs., bibliog. 16s. *(B) 142*

Fruit Growing

WALLACE, T., *and* **MARSH, R. W.,** *eds.*

Science and fruit: commemorating the jubilee of the Long Ashton Research Station, 1903–1953. Bristol, University of Bristol, 1953. pp.xiii,308, front., illus., plates, tables, diagrs., bibliog. 30s. *(B) 143*

Forestry

[See *160*]

PRINTING AND PUBLISHING

COCKEREL, D.

Bookbinding, and the care of books: a text-book for bookbinders and librarians; with drawings by N. Rooke and other illustrations. 5th ed. Pitman, 1953. pp.xvi,17–345, front., illus., plates. 15s. *The artistic crafts series of technical handbooks, ed. by W. R. Lethaby.* *(B) 144*

TRANSPORT

HOLCROFT, H.

The Armstrongs of the Great Western: their times, surroundings and contemporaries. *Railway World*, 1953. pp.140, illus., plates, maps, diagrs., bibliog. 15s. *(A) 145*

RESEARCH SERVICES LTD.

Bristol on the move: a travel survey. British Transport Commission, 1953. pp.46, front, illus., tables. 10s. 6d. *(A) 146*

INDUSTRIAL ORGANIZATION

SHAW, A. G.

An introduction to the theory and application of motion study. Rev. ed. London, Manchester, Harlequin Press, 1953. pp.x,37, plates, diagrs., bibliog. 6s. 'Previous ed. London, H.M.S.O , 1944.' *(B) 147*

CHEMICAL TECHNOLOGY

Fuel

COUNCIL OF BRITISH MANUFACTURERS OF PETROLEUM EQUIPMENT

British petroleum equipment [New ed.]. Council of British Manufacturers of Petroleum Equipment, 1953. pp.ix,679, illus., tables, diagrs. 50s. 'Previous ed. 1951.' *(B) 148*

HIMUS, G. W.

Fuel testing; laboratory methods in fuel technology. 3rd ed. Leonard Hill, 1953. pp.xv,278, illus., tables, diagrs., bibliog. 25s. 'Previous ed. 1942.' *(B) 149*

PLASTICS

BRITISH PLASTICS CONVENTION, 1953, London

Plastics progress 1953: papers and discussions at the British Plastics Convention, 1953, ed. by P. Morgan. Published for *British Plastics* by Iliffe, 1953. pp.vii,439, illus., tables, diagrs., bibliog. 50s. *(C) 150*

METALLURGY

AMERICAN BUREAU OF METAL STATISTICS

Yearbook; annual issue for the year 1952. New York, the Bureau, 1953. pp.120. $3.00. *(D) 151*

AMERICAN SOCIETY FOR METALS

Modern research techniques in physical metallurgy; a seminar on modern research techniques in physical metallurgy held during the thirty-fourth National metal congress and exposition. 7301 Euclid Avenue, Cleveland 3, Ohio, the Society, 1953. pp.335. $5.00 *(C) 152*

AMERICAN SOCIETY FOR METALS

Zirconium and zirconium alloys; a symposium presented to members of the ASM during the eighth Western metal congress and exposition. 7301 Euclid Avenue, Cleveland 3, Ohio, the Society, 1953. pp.354. $7.00. *(C) 153*

CONWAY, C. G.

Heat-resisting steels and alloys: a concise data book giving the high-temperature properties of commercial steels and alloys. Newnes, 1953. pp.vii,160, tables, diagrs. 25s. *(D) 154*

HULTGREN, R. R.

Fundamentals of physical metallurgy. Macdonald, 1953. pp.xiii,395, front., illus., tables, diagrs., bibliog. 70s. 'First published, New York, Prentice-Hall, 1952, $9.35.' *(C) 155*

INSTITUTION OF METALLURGISTS

The metallurgy of the rarer metals: lectures delivered at the Institution's Refresher Course, 1953. The Institution, 1953. pp.156, illus., map, tables, diagrs., bibliog. 15s. 6d. *(B) 156*

ORGANIZATION FOR EUROPEAN ECONOMIC CO-OPERATION. Technical Assistance Mission, No. 54

Non-ferrous ore dressing in the U.S.A. Paris, O.E.E.C.; London, H.M.S.O.; New York, Columbia University Press, 1953. pp.210. F. frs. 600, 12s. or $2.50. *(C) 157*

[See also *113*]

MANUFACTURES

WASTE and scrap trades' directory of Great Britain, 1953: the complete guide to the British waste reclamation industry. Maclaren, [1953]. pp.572. 35s. *(D) 158*

METALS

HERB, C. O.

Die-casting: the die-casting process and its application in modern manufacture, die-casting machines, design of different types of dies, composition and properties of die-casting alloys, and the die-casting of zinc, aluminium, brass, and other non-ferrous alloys. 2nd ed. New York, Industrial Press; Brighton, Machinery Publishing Co., [1953]. pp.[5],310, illus., diagrs. $4.50 or 37s. 6d. 'U.S. copyright date 1952.' *(B) 159*

WOOD

CLIFFORD, N.

Commercial hardwoods, their characteristics, identification and utilization. Pitman, 1953. pp.xiii,145 plates, bibliog., index. 21s. *(D) 160*

STAMM, A. J., *and* **HARRIS, E. E.**

Chemical processing of wood. New York, Chemical Publishing Co. Inc., 1953. pp.595, illus. $12.00. *(C) 161*

TEXTILES

BRADLEY, S. B.

Fully-fashioned hose manufacture. London, Manchester, Harlequin Press, 1953. pp.vii,172, illus., plates, tables, diagrs. 17s. 6d. *(B) 162*

SKINNER, THOMAS, & CO. (PUBLISHERS) LTD.

Wool trade directory of the world, 1953. London, Bradford [etc.], Skinner, 1953. pp.cxxviii,1173. 60s. *(D) 163*

[See also *142*]

BUILDING

GARNER, J. F., *and* **OFFORD, R. S.**

Building byelaws—law and practice. Shaw & Sons, 1953. pp.xix,483. 45s. 'Supplement: Comparative notes on the 1952 and 1953 editions of the model byelaws. pp.35, tables. Gratis.' *(B) 164*

GREAT BRITAIN. Ministry of Works. Advisory Council on Building Research and Development

Second report. H.M.S.O., 1953. pp.34, tables. 1s. 3d. *(B) 165*

YEARBOOK of the heating and ventilating industry [1953]. 8 Southampton Row, London, W.C.1, Technitrade Journals, [1953]: pp.302, illus., tables, diagrs., bibliog. 7s. 6d. *(D) 166*

ARCHITECTURE

GRAY, W. S.

Reinforced concrete water towers, bunkers, silos, and gantries. 3rd ed. rev. by G. P. Manning. Concrete Publications, 1953. pp.viii,223, illus., tables, diagrs. 12s. 'Previous ed. 1944.' *Concrete series.* *(B) 167*

PLANNING, by 'E. and O. E.' (S. R. Pierce and P. Cutbush): the architect's handbook. 7th ed. Published by Iliffe, for the *Architect and Building News.* pp.571, plans. 30s. 'Previous ed. 1949.' *(B) 168*

SUMMERSON, J. N.

Sir Christopher Wren. Collins, [1953]. pp.160, plates, plans, tables, bibliog. 8s. 6d. *Brief lives series—no. 9.* *(A) 169*

GEOGRAPHY

BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE. Liverpool Executive Committee

A scientific survey of Merseyside; prepared for the meeting held in Liverpool, 2nd to 9th September, 1953; editor: W. Smith; assistant editors: F. J. Monkhouse, H. R. Wilkinson. Liverpool, published for the Association by the University of Liverpool Press, 1953. pp.xv,299, plates, maps, tables, diagrs. 21s. *(B) 170*

[See also *88*]

BIOGRAPHY

ORE, O.

Cardano, the gambling scholar; with a translation from the Latin of Cardano's 'Book on games of chance' by H. Gould. Princeton (N.J.), Princeton U.P.; [London, O.U.P.], 1953. pp.xiv,249, illus., plates, facsims., tables, bibliog. 25s. *(A) 171*

[See also *145, 169*]

PUBLISHERS

The following abbreviations are used in the *Aslib Book-List*.

A. & U.: Allen & Unwin

C. & H.: Chapman and Hall

C.U.P.: Cambridge University Press

H.M.S.O.: Her Majesty's Stationery Office

L.G.: Longmans, Green

McG.-H.: McGraw-Hill

O. & B.: Oliver and Boyd

O.U.P.: Oxford University Press

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MARCH 1954
Nos. 172-254

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PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved: over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months, have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included. Nor are British Standard Specifications (except bound volumes). Any inquiry regarding these should be made direct to the B.S.I., 2 Park Street, London, W.1.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols:

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

(*C*) Books of an advanced or specially technical character.

(*D*) Directories, dictionaries, handbooks, lists and catalogues, encyclopædias, year-books, and similar publications.

A title-page, classified table of contents, and index are issued with the last number of each volume.

The form of entry of references has been altered to comply with British Standard Specification 1629 : 1950.

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GENERAL SCIENCE

BEVERIDGE, W. I. B.

The art of scientific investigation. 2nd ed. Heinemann, 1953. pp.xii,176, front., plates, bibliog. 10s. 6d. 'Previous ed. 1950.' *(A) 172*

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COLUMBIA UNIVERSITY. School of Library Service

Guide to the literature of the medical sciences for use in connection with Library Service 220B; prepared by T. P. Fleming. Preliminary ed. New York, the School, 1953. pp.[4],131. Mimeographed $4. *(D) 173*

INTERNATIONAL ASSOCIATION FOR RESEARCH IN INCOME AND WEALTH

Bibliography on income and wealth, vol. III: 1950; ed. by P. Deane. Cambridge, Bowes & Bowes, 1953. pp.x,11–66. 37s. 6d. *Annotated international bibliographies on income and wealth, vol. 3.* *(D) 174*

NEDERLANDS INSTITUUT VOOR DOCUMENTATIE EN REGISTRATUUR

List of scientific and learned periodicals in the Netherlands [ed. by A. Gorter]. The Hague, Martinus Nijhoff, 1953. pp.viii,63. Guilders 6.50. *(D) 175*

LIBRARIANSHIP

SHERA, J. H.

Historians, books and libraries: a survey of historical scholarship in relation to library resources, organization and services. Cleveland, the Press of Western Reserve University, 1953. pp.xvi,126. $3.50. *(B) 176*

DIRECTORIES AND YEARBOOKS

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PHILOSOPHY

BASSON, A. H., *and* O'CONNOR, D. J.

Introduction to symbolic logic. University Tutorial P., 1953. pp.viii,169, diagrs., bibliog. 7s. 6d. *(B) 177*

PSYCHOLOGY

BURT, *Sir* C.

The causes and treatment of backwardness. 2nd ed. rev. and enlarged. University of London P., 1953. pp.128. 8s. 6d. 'Previous ed. 1952.' *(B) 178*

The **FOURTH** mental measurements yearbook [1948–51]. ed. by O. K. Buros. Highland Park, New Jersey, Gryphon Press, 1953. pp.xxiv,1163. $18. *(D) 179*

PIAGET, J.

Logic and psychology, with an introduction on Piaget's logic by W. Mays. Manchester U.P., 1953. pp.xix,48, tables, diagrs. 6s. *(C) 180*

[See also *183, 187*]

SOCIAL SCIENCES

BUCHANAN, M., *ed.*

World directory of women's organizations. 14 Ellerdale Road, London, N.W.3, World Directory of Women's Organizations, [1953]. pp.xxxii,222. 45s. *(D) 181*

EAGAR, W. M.

Making men: the history of Boys' Clubs and related movements in Great Britain; with a foreword by C. Garbett. University of London P., [1953]. pp.437, front., plates. 20s. *(A) 182*

STATISTICS

GARRETT, H. E.

Statistics in psychology and education; with an introduction by R. S. Woodworth. 4th ed. London, New York [etc.], L.G., 1953. pp.xiii,460, tables, diagrs. 30s. 'Previous ed. 1947.' *(C) 183*

KENDALL, M. G.

Exercises in theoretical statistics. Griffin, 1954. pp.vii,179, solutions. 20s. *(B) 184*

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ECONOMICS

GILLESPIE, S. C.

A hundred years of progress: the record of the Scottish Typographical Association, 1853 to 1952. Glasgow, published for the Association by Maclehose, 1953. pp.xv,268, front., tables. 25s. *(A) 185*

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PUBLIC ADMINISTRATION

OFFORD, R. S.

Municipal engineering administration and organization. *Contractors' Record and Municipal Engineering, 1953.* pp.222, diagrs. 25s. *(B) 186*

EDUCATION

BAKER, H. J.

Introduction to exceptional children. 2nd ed. New York, Macmillan, 1953. pp.xvi,500, plates, tables, diagrs. $5. *(B) 187*

INCORPORATED ASSOCIATION OF ASSISTANT MASTERS IN SECONDARY SCHOOLS

The teaching of classics. Cambridge, C.U.P., 1954. pp.xii,244, bibliog. 12s. 6d. *(B) 188*

LLOYD, F.

Educating the sub-normal child: aspects of the work of a junior school for educationally sub-normal children; with a foreword by M. F. Cleugh. Methuen, 1953. pp.vii,148, plates, tables. 11s. 6d. *Contributions to modern education series, ed. by E. Lawrence.* *(A) 189*

MILLS, H. R.

Techniques of technical training. Cleaver-Hume, 1953. pp.195, tables, diagrs., index. 10s. 6d. *(B) 190*

MURRAY, A. V.

Education into religion. Nisbet, 1953. pp.xii,230. 14s. *(A) 191*

SCIENCE MASTERS' ASSOCIATION. Secondary Modern Schools Sub-Committee

Secondary modern science teaching: a report on the teaching of science in secondary modern schools. J. Murray, 1953. pp.xi,171, illus., tables, diagrs. 7s. 6d. *(B) 192*

STERN, C.

Children discover arithmetic: an introduction to structural arithmetic; foreword by M. Lehr. Harrap, 1953. pp.xxiv,295, front., illus., plates, tables, diagrs. 25s. 'First published New York, Harper, 1949.' *(A) 193*

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PHILOLOGY

SAVORY, T. H.

The language of science: its growth, character and usage. Deutsch, 1953. pp.184, tables, 10s. 6d. *Language library series, ed. by E. Partridge.* *(A) 194*

MATHEMATICS

COOKE, R. G.

Linear operators: spectral theory and some other applications. Macmillan, 1953. pp.xii,454, bibliog. 52s. 6d. *(C) 195*

SMELTZER, D.

Man and number. Black, 1953. pp.viii,114, bibliog. 7s. 6d. *(A) 196*

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ASTRONOMY

ALLER, L. H.

Astrophysics; the atmospheres of the sun and the stars. New York, Ronald Press, 1953. pp.412. $12. *(C) 197*

SIDGWICK, J. B.

William Herschel, explorer of the heavens. Faber, 1953. pp.228, front., plates, bibliog., index. 12s. 6d. *(A) 198*

SMART, W. M.

Celestial mechanics. L.G., 1953. pp.vii,381, diagrs. 70s. *(C) 199*

CHEMISTRY

AMERICAN CHEMICAL SOCIETY. Division of Chemical Literature

Chemical nomenclature: a collection of papers comprising the symposium on chemical nomenclature presented before the Division of Chemical Literature at the 120th meeting—diamond jubilee—of the American Chemical Society, New York, September, 1951. Washington, the Society, 1953. pp.v,112. *Advances in chemistry series, no. 8.* Price not known. *(B) 200*

BOWEN, E. J., *and* **WOKES, F.**

Fluorescence of solutions. L.G., 1953. pp.vii,91, plates, tables, diagrs., bibliog. 25s. *(B) 201*

BRIMLEY, R. C., *and* **BARRETT, F. C.**

Practical chromatography; with a foreword by E. C. Bate-Smith. C. & H., 1953. pp.128, plates, tables, diagrs., bibliog. 15s. *(C) 202*

RADLEY, J. A.

Starch and its derivatives. Vol. 2. 3rd ed. rev. C. & H., 1953. pp.xi,465, illus., plates, tables, bibliog. 65s. *Monographs on applied chemistry series, ed. by E. H. Tripp, vol. 12.* 'Previous ed. 1943.' *(B) 203*

PHYSICS

FRISCH, O. R.

Progress in nuclear physics. Vol. 3. Pergamon, 1953. pp.vii,279, illus., plates, tables, diagrs., bibliog. 63s. *Progress series.* *(C) 204*

MEEK, J. M., *and* **CRAGGS, J. D.**

Electrical breakdown of gases. Oxford, Clarendon, 1953. pp.ix,507, plates, tables, diagrs. 60s. *International series of monographs on physics, ed. by N. F. Mott and Sir E. Bullard.* *(C) 205*

MORSE, P. M., *and* **FESHBACK, H.**

Methods of theoretical physics. Part 1. London, New York, McG.-H., 1953. pp.xxii,997,xl, diagrs., bibliog. 120s. or $15. *International series in pure and applied physics, ed. by G. P. Harnwell.* *(C) 206*

STARLING, S. G.

Electricity and magnetism for degree students. 8th ed. rev. in collaboration with the author by A. G. Woodall. L.G., 1953. pp.viii,650, tables, diagrs. 30s. *(B) 207*

BIOLOGY

LAURENTIAN HORMONE CONFERENCE

Recent progress in hormone research. The proceedings of the Laurentian Hormone Conference. Vol. 8, ed. by G. Pincus. New York, Academic Press, 1953. pp.603, illus. $10.80. *(C) 208*

WILLMER, E. N.

Tissue culture: the growth and differentiation of normal tissues in artificial media. London, Methuen; New York, Wiley, 1953. pp.xx,175, plates, diagrs., bibliog. 9s. 6d. *Methuen's monographs on biological subjects.* *(C) 209*

BOTANY

FRITSCH, F. E., *and* **SALISBURY,** ***Sir*** **E.**

Plant form and function. New and rev. ed. Bell, 1953. pp.vii,673, illus., tables, diagrs. 30s. 'Previous ed. 1938.' *(B) 210*

ZOOLOGY

EVANS, W. H.

A catalogue of the American Hesperiidae, indicating the classification and nomenclature adopted in the British Museum (Natural History). Part 3: (groups E, F, G)—Pyrginae. Section 2. London, British Museum (Natural History), 1953. pp.v,246, plates. 40s. *(C) 211*

FARADAY SOCIETY. Colloid and Biophysics Committee

Nature and structure of collagen: papers presented for a discussion convened by the Colloid and Biophysics Committee of the Faraday Society at King's College, London, on 26 and 27 March, 1953; ed. by J. T. Randall, assisted by S. F. Jackson. Butterworth, 1953. pp.ix,269, illus., tables, diagrs., bibliog. 42s. *(C) 212*

FREEMAN, P., *and* **MEILLON, B. de**
Simuliidae of the Ethiopian region. British Museum (Natural History), 1953. pp.vii,224, front., illus., bibliog. 50s. *(C) 213*

MACLEOD, R. D.
Key to the names of British birds. Pitman, 1954. pp.vii,67. 10s. 6d. *(D) 214*

PUBLIC HEALTH

CLUNIE HARVEY, W., *and* **PERRY, H. A.**
Food hygiene handbook. Heywood, 1953. pp.x,159, illus., tables. 15s. *(A) 215*

PHARMACY

The **BRITISH** encyclopaedia of medical practice. 2nd ed. under the general editorship of the Rt. Hon. Lord Horder. Pharmacopoeia, ed. by G. E. Hesketh. Butterworth, 1953. pp.xi,542, tables, diagrs. 72s. 6d. *(D) 216*

VETERINARY SCIENCE

McFADYEAN, *Sir* **J.**
Osteology and arthrology of the domesticated animals. 4th ed. edited by H. V. Hughes and J. W. Dransfield. Baillière, 1953. pp.vii,288, illus. 21s. 'Previous ed. H. K. Lewis, 1934.' *(B) 217*

ENGINEERING

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Testing Materials

AITCHISON, L., *and* **PUMPHREY, W. I.**
Engineering steels: a study of the properties of steels and the principles governing their selection for engineering applications. Macdonald & Evans, 1953. pp.923, front., illus., plates, tables, diagrs., bibliog. 105s. *(C) 218*

RYDER, G. H.
Strength of materials. Cleaver-Hume, 1953. pp.x,278, table, diagrs., bibliog. 21s. *(B) 219*

Electrical

BELL, D. A.
Statistical methods in electrical engineering. C. & H., 1953. pp.viii,175, tables, diagrs., bibliog. 25s. *(B) 220*

KLEMPERER, O.
Electron optics. 2nd ed. Cambridge, C.U.P., 1953. pp.xiii,471, illus., tables, diagrs., bibliog. 50s. *Cambridge monographs on physics series, ed. by N. Feather and D. Shoenberg.* 'Previous ed. 1939.' *(C) 221*

LYTHALL, R. T.
The J. & P. switchgear book: being an outline of modern switchgear practice for the non-specialist user. 5th ed. Johnson & Phillips, 1953. pp.viii,753, illus., plate, tables, diagrs., bibliog. 35s. 'Previous ed. 1947.' *(B) 222*

REYNER, J. H.
The magnetic amplifier. 2nd ed. Rockliff, 1953. pp.119, plates, tables, diagrs., bibliog. 15s. 'Previous ed. 1950.' *(B) 223*

WALKER, R. C.
Relays for electronic and industrial control. C. & H., 1953. pp.xi,303, illus., diagrs., bibliog. 42s. *(B) 224*

WORKSHOP PRACTICE

HOUGHTON, P. S.

Workshop costs and costing. C. & H., 1953. pp.xii,295, tables, diagrs. 35s. *(B) 225*

AUTOMOBILE

MOTOR CYCLE

Speed and how to obtain it. 7th ed. Published for *The Motor Cycle* by Iliffe. pp.162, illus., tables, diagrs. 5s. *(A) 226*

AERONAUTICAL

GREEN, D. W., *and* **POLLINGER, G.,** *comps.*

The observer's book of aircraft, describing one hundred and seventy-one aircraft; with a foreword by P. G. Masefield. 2nd ed. Warne, 1953. pp.287, illus., diagrs. 5s. *Observer's pocket series.* 'Previous ed. 1952.' *(A) 227*

AGRICULTURE

TROW-SMITH, R.

Society and the land. Cresset P., 1953. pp.252, illus. 18s. *(A) 228*

WYLLIE, J.

Farming records and accounts. Butterworth, 1953. pp.xiii,310, tables. 30s. *Wye College series, no. 1.* *(B) 229*

SOILS

KUBIENA, W. L.

The soils of Europe. London, Murby; Madrid, Consejo Superior de Investigaciones Cientificas, 1953. pp.317, plates, tables, diagrs. 75s. 'With keys and descriptions for easy identification of the most important soil formations of Europe with consideration of the most frequent synonyms.' *(B) 230*

CROPS

WHITEHEAD, T., *and others*

The potato in health and disease, by T. Whitehead, T. P. McIntosh and W. M. Findlay. 3rd ed. rev. and enlarged. London, Edinburgh, O. & B., 1953. pp.xv,744, illus., plates, tables, diagrs., bibliog. 60s. 'Previous ed. 1945.' *(C) 231*

HORTICULTURE

NICHOLAS, D. J. D.

Chemical tissue tests for determining the mineral status of plants in the field. Salisbury, Tintometer, 1953. pp.33, front., illus., tables, bibliog. 8s. 6d. *(C) 232*

NORMAN, A.

Successful rose growing; with a foreword by W. E. Moore. London, Collingridge; New York, Transatlantic Arts. 1953. pp.183, front., plates, tables. 15s. or $3.75. *(B) 233*

LIVESTOCK

COOPER, M. M.

Beef production. Nelson, 1953. pp.x,234, front., plates, tables, diagrs., bibliog. 12s. 6d. *Nelson's agricultural series, ed. by Sir W. G. Ogg and G. V. Jacks.* *(B) 234*

FISHWICK, V. C.

Pigs: their breeding, feeding and management. 5th rev. ed., edited by W. A. Biggar. C. Lockwood, 1953. pp.228, plates, tables, diagrs. 18s. *Agricultural and horticultural series, ed. by H. C. Long.* *(B) 235*

HALNAN, E. T., *and* **GARNER, F. H.**

The principles and practice of feeding farm animals. 4th ed. L.G., 1953. pp.viii,408, plates, tables, diagrs. 25s. 'Previous ed. 1946.' (*B*) *236*

PRINTING AND PUBLISHING

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TRANSPORT

ELLIS, H.

The Midland Railway. Allan, 1953. pp.viii,192, front., plates, maps, tables. 25s. (*A*) *237*

ROBBINS, R. M.

The Isle of Wight railways. South Godstone (Sy.), Oakwood Press, 1953. pp.[2],37, plates, maps, tables, bibliog. 7s. 6d. *Oakwood library of railway history series, no. 54.* (*A*) *238*

The **TRANSPORT** Act, 1953; with general introduction and annotations by D. Karmel and K. Potter. Butterworth, 1953. pp.[7],333. 27s. 6d. 'Reprinted from *Butterworth's annotated legislation service.* (*B*) *239*

WILKINSON, G. S.

Road traffic prosecutions. Solicitors' Law Stationery Society, 1953. pp.xxxvi, 195. 25s. (*B*) *240*

INDUSTRIAL ORGANIZATION

GREAT BRITAIN. Treasury. Organization and Methods Division

Sorting of documents; report of inter-departmental study group. H.M.S.O., 1953. pp.vi,70, illus., tables, diagrs. 4s. (*B*) *241*

GREAT BRITAIN. Treasury. Organization and Methods Division

Stores accounting and provisioning procedures; report of inter-departmental study group. H.M.S.O., 1952. pp.ii,82, tables, diagrs. 7s. 6d. (*B*) *242*

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CHEMICAL TECHNOLOGY

FUEL

BRITISH industries: oil. Cassell, 1953. pp.120, illus., tables, diagrs. 8s. 6d. 'Published with the technical assistance of The Shell Petroleum Company Ltd.' (*A*) *243*

FOOD

DANIEL, A. R.

Bakery materials and methods: a book for every baker and confectioner. 3rd rev. and enlarged ed. Maclaren, 1953. pp.548, illus., tables. 22s. 6d. 'Previous ed. 1949.' (*B*) *244*

FRANCE. Ministère de l'Agriculture. Direction Générale du Génie Rural et de l'Hydraulique Agricole

The cider factory: plant and layout; translation and diagrams prepared by V. L. S. Charley, P. M. Mumford and E. J. Martin. L. Hill, 1953. pp.xiii,107, plans, tables, diagrs. 20s. *Technical publications series, no. 2.* 'Originally published as *Les bâtiments des industries agricoles.* Vol. 2. Paris, Librarie Agricole, Horticole, Forestière et Ménagère, 1948.' (*B*) *245*

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Glass and Ceramics

BRITISH CERAMIC SOCIETY

Ceramics: a symposium; arranged and edited by A. T. Green and G. H. Stewart. Stoke-on-Trent, British Ceramic Society, 1953. pp.xix,877, illus., plates, tables, diagrs., bibliog. 65s. 'Excludes glass manufactures.' *(C) 246*

Metallurgy

NAISH, W. A., *and others*

Select methods of metallurgical analysis, by W. A. Naish, J. E. Clennell and V. S. Kingswood. 2nd rev. ed. C. & H., 1953. pp.xii,660, plates, tables, diagrs., bibliog. 75s. 'Previous ed. 1929.' *(B) 247*

MANUFACTURES

Metals

BRANDT, D. J. O.

The manufacture of iron and steel (a comprehensive course for operatives). English U.P., 1953. pp.xii,13–384, front., illus., tables, diagrs. 15s. *City and Guilds series, ed. by Major-General C. Lloyd.* 'Published under the auspices of the British Iron and Steel Federation.' *(B) 248*

Leather

KORN, J., *ed.*

Boot and shoe production. Pitman, 1953. pp.xii,627, illus., tables, diagrs. 45s. . . . an abridged, rearranged and completely revised edition of the series 'Boots and shoes: their making, manufacture and selling, ed. by F. Y. Golding. . . *Publisher's note.*' *(B) 249*

WOODROFFE, D.

Leather dressing, dyeing and finishing. 8 Higher Brook St., Teignmouth (Devon), Quality Books, 1953. pp.[8],206, plates, tables, diagr. 24s. *(B) 250*

Textiles

INDIA and Pakistan wool, hosiery and fabrics, 1954: an annual review of the wool, worsted, carpet and hosiery trades and industries in India and Pakistan, covering raw wool production, classification, marketing, import and export; yarn production, knitting and manufacturing, processing, distribution and marketing. 5th ed. Oldham, Worrall, 1953. pp.313, illus., tables. 33s. *(D) 251*

Fine Mechanisms

DAVIS, W. O.

Gears for small mechanisms; illustrations by E. A. Ayres. N. A. G. Press, 1953. pp.ix,157, illus., tables, diagrs. 25s. *(B) 252*

PHOTOGRAPHY

PEARLMAN, A.

Rollei manual: the complete book of twin-lens photography. Fountain Press, 1953. pp.xii,369, illus., tables, diagrs. 35s. *(B) 253*

BIOGRAPHY

DURAND, W. F.

Adventures in the navy, in education, science, engineering, and in war: a life story. London, McG.-H.; New York, American Society of Mechanical Engineers, 1953. pp.xiii,212, front., bibliog. 32s. or $4.00. *(A) 254*

[See also *198*]

PUBLISHERS

The following abbreviations are used in the *Aslib Book-List:*

A. & U.: Allen & Unwin

C. & H.: Chapman and Hall

C.U.P.: Cambridge University Press

H.M.S.O.: Her Majesty's Stationery Office

L.G.: Longmans, Green

McG.-H.: McGraw-Hill

O. & B.: Oliver and Boyd

O.U.P.: Oxford University Press

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PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved: over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months, have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included. Nor are British Standard Specifications (except bound volumes). Any inquiry regarding these should be made direct to the B.S.I., 2 Park Street, London, W.1.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols:

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

(*C*) Books of an advanced or specially technical character.

(*D*) Directories, dictionaries, handbooks, lists and catalogues, encyclopædias, year-books, and similar publications.

A title-page, classified table of contents, and index are issued with the last number of each volume.

The form of entry of references has been altered to comply with British Standard Specification 1629 : 1950.

ASLIB BOOK-LIST

Volume 19 *Number 4* *April 1954*

GENERAL SCIENCE

DAVY, N., *ed.*

British scientific literature in the seventeenth century. Harrap, 1954. pp.244, bibliog. 10s. 6d. *Life, literature and thought library.* (*B*) *255*

DOCUMENTATION

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FIELD, H.

Bibliography on Southwestern Asia. Coral Gables, Florida, University of Miami P., 1953. pp.xvi,106. $3. (*D*) *256*

GREENE, K. R. C., *comp.*

Institutions and individuals: an annotated list of directories useful in international administration. Chicago, Public Administration Clearing House; [The Hague, Martinus Nijhoff], 1953. pp.vi,60. Guilders 10.75. (*D*) *257*

INTERNATIONAL COMMITTEE OF COMPARATIVE LAW

A register of legal documentation in the world; prepared with the support of the International Committee for Social Science Documentation. Paris, Unesco, [London, H.M.S.O.], 1953. pp.362. 22s 6d., $4 or F. frs. 1100. (*D*) *258*

SYSTEMATICS ASSOCIATION

Bibliography of key works for the identification of the British fauna and flora; ed. for the Association by J. Smart and G. Taylor. 2nd ed. The Association, 1953. pp.xi,126. 12s. 6d. *Publication no. 1.* (*D*) *259*

UNITED NATIONS EDUCATIONAL, SCIENTIFIC AND CULTURAL ORGANIZATION

Index translationum: international bibliography of translations, 5. Paris, Unesco, [London, H.M.S.O.], 1953. pp.511, table. 42s., $7.50, or F. frs. 2000. (*D*) *260*

UNITED NATIONS EDUCATIONAL, SCIENTIFIC AND CULTURAL ORGANIZATION. **Co-ordinating Committee on Documentation in the Social Sciences**

World list of social science periodicals. Paris, Unesco, [London, H.M.S.O.]; 1953. pp.161. 9s. 6d., $1.75 or F. frs. 450. *Documentation in the social sciences.* (*D*) *261*

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LIBRARIANSHIP

TAUBE, M., *and others*

Studies in coordinate indexing, by M. Taube and associates. Washington, D.C., Documentation Incorporated, 1953. pp.110, tables, diagrs. $3. *(B) 262*

UNITED NATIONS EDUCATIONAL, SCIENTIFIC AND CULTURAL ORGANIZATION

Guide des centres nationaux d'information bibliographique; établie conformément aux recommandations du Comité consultatif international de bibliographie. Paris, Unesco; London, H.M.S.O., 1954. pp.68. F. frs. 100, 2s. or 40¢. *(D) 263*

DIRECTORIES AND YEARBOOKS

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PSYCHOLOGY

OSGOOD, C. E.

Method and theory in experimental psychology. New York, [London], O.U.P., 1953. pp.vii,800, illus., tables, diagrs., bibliog. 80s. or $10. *(C) 264*

SOCIAL SCIENCES

ECONOMICS

ASHTON, T. S., *and* **SAYERS, R. S.,** *eds.*

Papers in English monetary history. Oxford, Clarendon P., 1953. pp.[7], 167, tables, diagrs. 18s. *(B) 265*

EDUCATION

WORLD HEALTH ORGANIZATION

World directory of medical schools. Geneva, W.H.O., [London, H.M.S.O.], 1953. pp.220, tables. 25s., $4 or F. frs. 1200. *(D) 266*

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MATHEMATICS

HODGE, W. V. D., *and* **PEDOE, D.**

Methods of algebraic geometry. Vol. III. Book V: Birational geometry. C.U.P., 1954. pp.x,336, bibliog. 40s. *(B) 267*

RUDIN, W.

Principles of mathematical analysis. London, New York, [etc.], McG.-H., 1953. pp.ix,227, bibliog. 40s. or $5. *International series in pure and applied mathematics, ed. by W. T. Martin.* *(C) 268*

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GEODESY

ROBINSON, A. H.

Elements of cartography; original illustrations drawn by J. J. Flannery. London, C. & H.; New York, Wiley, 1953. pp.ix,254, illus., maps, tables, diagrs., bibliog. 56s. or $7. *(B) 269*

CHEMISTRY

DICTIONARY of organic compounds: the constitution and physical and chemical properties of the principal carbon compounds and their derivatives, together with the relevant literature references. Editors-in-chief: Professor Sir I. Heilbron, H. M. Bunbury. New and revised ed. Eyre & Spottiswoode, 1953. 4v. Diagrs., bibliog. £28. 'Vol. 1. pp.xvi,654.—Vol. 2. pp.xvi,845.—Vol. 3. pp.xvi,838.—Vol. 4. pp.xvi,694. Editors: A. H. Cook, Professor E. R. H. Jones. Assistant editors: T. G. Halsall, J. R. A. Pollock. Originally published 1934–1937.' *(D) 270*

DODD, R. E., *and* **ROBINSON, P. L.**

Experimental inorganic chemistry: a guide to laboratory practice. Amsterdam, Elsevier; London, Cleaver-Hume, 1954. pp.xii,424, illus., tables, diagrs., bibliog. 42s. *(B) 271*

INGOLD, C. K.

Structure and mechanism in organic chemistry. Bell, 1953. pp.ix,828, tables, diagrs. 77s. 6d. *(C) 272*

LIPSON, H. S., *and* **COCHRAN, W.**

The determination of crystal structures. Bell, 1954. pp.ix,345, plates, tables, diagrs., bibliog. 50s. *Crystalline state series, ed. by Sir L. Bragg—vol. 3.* *(C) 273*

VERMA, A. J.

Crystal growth and dislocations. Butterworth, 1953. pp.xii,182, illus., diagrs., bibliog. 30s. *(B) 274*

PHYSICS

DEAN, G.

Report on the atom: what you should know about atomic energy. Eyre & Spottiswoode, 1954. pp.288, plates. 16s. *(A) 275*

GREAT BRITAIN. Ministry of Supply, *and*
GREAT BRITAIN. Central Office of Information

Britain's atomic factories: the story of atomic energy production in Britain, by K. E. B. Jay. H.M.S.O., 1954. pp.ix,100, front., plates, diagrs. 5s. *(A) 276*

YARWOOD, T. M.

Acoustics: a textbook for physics and engineering students. Macmillan, 1953. pp.x,346, illus., plates, tables, diagrs. 15s. *(B) 277*

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MINERALOGY AND CRYSTALLOGRAPHY

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METEOROLOGY

GOUDY, R. M.

The physics of the stratosphere. C.U.P., 1953. pp.x,187, tables, diagrs., bibliog. 25s. *(B) 278*

PALÆONTOLOGY

WALTON, J.

An introduction to the study of fossil plants. 2nd ed. Black, 1953 [i.e. 1954.] pp.x,201, front., illus., tables, diagrs., bibliog. 30s. 'Previous ed. 1940.' *(B) 279*

BIOLOGY

ABERCROMBIE, M.

Sex-determination. 3rd rev. ed. Methuen, 1954. pp.vii,68, tables, diagrs., bibliog. 6s. 6d. *Methuen's monographs on biological subjects. General Ed. M. Abercrombie.* 'Previous ed. 1946.' *(C) 280*

GENETICS

HOVANITZ, W.

Textbooks of genetics. London, Cleaver-Hume; New York, Elsevier, 1953. pp.x,419, illus. 42s. 6d. or $5.95. *(B) 281*

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DAVIDSON, J. N.

The biochemistry of the nucleic acids. London, Methuen; New York, Wiley, 1954. pp.viii,200, plates, tables, diagrs., bibliog. 10s. 6d. *Methuen's monographs on biochemical subjects. General eds. Sir R. Peters and F. G. Young.* 'Previous ed. 1950.' *(C) 282*

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BOR, N. L.

Manual of Indian forest botany. Calcutta; London, O.U.P. (Indian Branch), 1954. pp.xvi,441, front., plates. 42s. *(B) 283*

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FERRIS, G. F.

Atlas of the scale insects of North America. Vol. 6: The pseudococcidae (part 2). Stanford (Calif.), Stanford U.P.; London, O.U.P., 1953, [1954]. pp.vii,279–506, diagrs. 60s. or $7.50. 'Typewriter script.' *(C) 284*

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PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

British veterinary codex, 1953. Pharmaceutical Press, 1953. pp.xxiii,737, diagrs., tables. 45s. *(B) 285*

ENGINEERING

Testing Materials

HOFFMAN, O., *and* SACHS, G.

Introduction to the theory of plasticity for engineers. London, New York, [etc.], McG.-H., 1953. pp.xiv,276, diagrs., bibliog. 52s. *(B) 286*

WANG, Chi-Teh

Applied elasticity. New York [etc.], London, McG.-H., 1953. pp.ix,357, tables, diagrs. 57s. 6d. or $8. *(C) 287*

Mechanical

BRITISH PRODUCTIVITY COUNCIL

A review of productivity in the valves industry. The Council, 1954. pp.[3], 32, plates, tables, diagrs. 2s. *(B) 288*

BROWN, W.

Epicyclic gearing; kinematics and torque distribution. Brighton, London, Machinery Publishing Co., 1953. pp.46, diagrs. 4s. *Machinery's Yellow back series—no. 33.* *(C) 289*

MOONEY, D. A.
Mechanical engineering thermodynamics. New York, Prentice-Hall, 1953. pp.540. $9.35 (to schools $7). *(B) 290*

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Graphical spring design. Brighton, London, Machinery Publishing Co., 1953. pp.64, tables, diagrs. 4s. *Machinery's Yellow back series—no. 32.* *(B) 291*

WEST, J. C.
Textbook of servomechanisms. English U.P., 1954. pp.[2],viii,9–238, front., diagrs., bibliog. 25s. *(B) 292*

STEAM

MOLLOY, E., *ed.*
Power and process-steam plant. Newnes, 1954. pp.vii,184, illus., tables, diagrs. 17s. 6d. *(B) 293*

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ELECTRICAL

AGGER, L. T.
Principles of electronics. Macmillan, 1953. pp.[8],340, tables, diagrs. 18s. *(B) 294*

DAVIS, W. L., *and* **WEED, H. R.**
Industrial electronic engineering. Pitman, 1953. pp.xi,514, illus., diagrs. 55s. *Prentice-Hall electrical engineering series, ed. by W. L. Everitt.* *(C) 295*

ETTINGER, G. M.
Magnetic amplifiers; London, Methuen; New York, Wiley, 1953. pp.viii,88, tables, diagrs., bibliog. 6s. 6d. or $1.50. *Methuen's monographs on physical subjects series, ed. by B. C. Worsnop.* *(C) 296*

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The synchronous induction motor. Macdonald, 1954. pp.xi,13–136, illus., tables, diagrs., bibliog. 18s. *(B) 297*

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Electrical earthing and accident prevention. Newnes, 1954. pp.viii,248, illus., tables, diagrs., bibliog. 25s. *Electrical engineering progress series.* 'Contributed to by 19 specialists.' *(B) 298*

SHEA, R. F., *ed.*
Principles of transistor circuits. New York, Wiley; London, C. & H., 1953. pp.xxx,535, front., tables, diagrs., bibliog., 88s. or $11. *(B) 299*

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ELECTRICAL COMMUNICATIONS

CONFERENCE ON SOFT MAGNETIC MATERIALS, 1952, London
Soft magnetic materials for telecommunications: a symposium held at the Post Office Engineering Research Station in April 1952; ed. by C. E. Richards and A. C. Lynch. Pergamon, 1953. pp.viii,346, plates, tables, diagrs. 63s. *(B) 300*

STURLEY, K. R.
Radio receiver design. Part 1: Radio frequency amplification and detection. 2nd rev. ed. C. & H., 1953. pp.xx,667, tables, diagrs., bibliog. 56s. 'Previous ed. 1943.' *(B) 301*

WORKSHOP PRACTICE

BRITISH STANDARDS INSTITUTION
British standards for workshop practice. 1953 ed.; general ed. J. E. Baty. B.S.I., 1953. pp.vi,621, tables, diagrs. 21s. *B.S. handbooks series—no. 2.* 'Previous issue 1946.' *(B) 302*

MARINE

BAKER, E.

Introduction to steel shipbuilding, [by] E. Baker III. 2nd ed. New York [etc.], London, McG.-H., 1953. pp.xxii,398, front., illus., tables, diagrs., bibliog. 42s. 6d. or $6. 'Previous ed. 1943.' *(B) 303*

CIVIL

CEMENT AND CONCRETE ASSOCIATION. Symposium on Prestressed Concrete Statically Indeterminate Structures, 1952, London

Papers and discussion at a symposium organized by the Cement and Concrete Association in conjunction with the Prestressed Concrete Development Group at the Institution of Civil Engineers, London. Editors: R. P. Andrew, P. J. Witt. Cement and Concrete Association 1953. pp.[5],180, illus., tables, diagrs., 25s. *(C) 304*

DE MARE, E. S.

The bridges of Britain. Batsford, 1954. pp.226, front., illus. 42s. *(B) 305*

ERIKSEN, B.

Theory and practice of structural design applied to reinforced concrete. Concrete Publications, 1953. pp.vi,401, tables, diagrs. 25s. *Concrete series.* *(B) 306*

AERONAUTICAL

GREEN, D. W., *and* **POLLINGER, G.**

The aircraft of the world. Macdonald, 1953. pp.160, illus., diagrs. 25s. *(A) 307*

AGRICULTURE

CROPS

CHATT, E. M.

Cocoa: cultivation, processing, analysis. London, New York, Interscience Publishers, 1953. pp.xvi,302, illus., maps, tables, diagrs. 58s. or $8.50. *Economic crops series, ed. by Z. I. Kertesz—vol. 3.* *(B) 308*

KING, N. J., *and others*

Manual of cane-growing, by N. J. King, R. W. Mungomery and C. G. Hughes. London, Sydney, Angus & Robertson, 1953. pp.[7],349, illus., tables, diagrs. 63s. *Australian agricultural and livestock series.* *(B) 309*

FORESTRY

HOWES, F. N.

Vegetable tanning materials. Butterworth, 1953. pp.xi,325, front., illus., bibliog. 35s. *(B) 310*

LIVESTOCK

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS

Zebu cattle of India and Pakistan; an F.A.O. study prepared by N. R. Joshi and R. W. Phillips. London, H.M.S.O.; New York, Columbia University P., 1953. pp.vii,255. 15s. or $3. *Agricultural studies—no. 19.* *(B) 311*

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OXFORD. University Press

The printing of mathematics; aids for authors and editors and rules for compositors and readers at the University Press, Oxford, by T. W. Chaudy, P. R. Barrett and C. Batey. O.U.P., 1954. pp.ix,105, illus., plates, diagrs. 15s. *(B) 312*

TRANSPORT

COOPER, B. K.

Electric trains and locomotives. L. Hill, 1953. pp.xvii,111, front., plates, diagrs. 15s. *(A) 313*

MARSHALL, C. F. D.

A history of railway locomotives down to the end of the year 1831. Locomotive Publishing Co., 1953. pp.xii,271, front., illus., plates, bibliog. 50s. *(A) 314*

RAILWAY CORRESPONDENCE AND TRAVEL SOCIETY

The locomotives of the Great Western Railway. Part 8: Modern passenger classes. 18 Holland Ave., Cheam (Sy.), Railway Correspondence and Travel Society, 1953. pp.40, illus., plates, tables. 7s. 6d. *(A) 315*

INDUSTRIAL ORGANIZATION

OFFICE MANAGEMENT ASSOCIATION

Grading of clerical work. London, the Association, 1953. pp.28,[56]. 21s. *(B) 316*

INTERNATIONAL INSTITUTE OF ADMINISTRATIVE SCIENCES

Handbook of organisation and methods techniques, by H. O. Dovey. 2nd ed. Brussels, the Institute, [London, H.M.S.O.], 1953. pp.61. 4s. 4d. *(B) 317*

CHEMICAL TECHNOLOGY

BRAUTLECHT, C. A.

Starch: its sources, production and uses. London, C. & H.; New York, Reinhold, 1953. pp.408, illus. 80s. or $10. *(C) 318*

Glass and Ceramics

RIGBY, G. R.

The thin-section mineralogy of ceramic materials: with a foreword by A. T. Green. 2nd ed. Queens Rd., Penkhull, Stoke-on-Trent, British Ceramic Research Association, 1953. pp.231, illus., tables, diagrs., bibliog. 32s. 6d. 'Previous ed. 1948.' *(C) 319*

Metallurgy

CHURCHILL, S. C.

Heat treatment equipment. Brighton, London, Machinery Publishing Co., 1953. pp.54, illus., tables, diagrs. 4s. *Machinery's Yellow back series—no. 26a.* *(B) 320*

CHURCHILL, S. C.

Heat treatment practice. Machinery Publishing Co. pp.60, tables, diagrs. 4s. *Machinery's Yellow back series—no. 26b.* *(B) 321*

HALL, E. O.

Twinning and diffusionless transformations in metals. Butterworth, 1954. pp.iv,181, illus., tables, diagrs., bibliog. 30s. *(C) 322*

MURPHY, A. J.

Non-ferrous foundry metallurgy: the science of melting and casting non-ferrous metals and alloys. Pergamon, 1954. pp.x,497, illus., tables, diagrs., bibliog. 70s. *(C) 323*

MANUFACTURES

OAKLEY, C. A., *ed.*

Scottish industry: an account of what Scotland makes and where she makes it. Edinburgh, Scottish Council (Development and Industry), 1953. pp.vii,332, front., plates, maps. 25s. *(B) 324*

METALS

GREAT BRITAIN. Ministry of Supply. Advisory Committee (Die Casting)
A handbook on die castings for the use of service designers and inspectors; comp. by F. D. Penny in collaboration with members of the Advisory Committee (Die Casting). H.M.S.O., 1953. pp.ix,78, illus., tables, diagrs. 6s. *(B) 325*

HOTCHKISS, A. G., *and* **WEBBER, H. M.**
Protective atmospheres. New York, Wiley; London, C. & H., 1953. pp.viii, 341, illus., tables, diagrs., bibliog. 56s. or $7. *(C) 326*

ROSSI, B. E.
Welding engineering. New York [etc.], London, McG.-H., 1954. pp.xiii,786, illus., tables, diagrs., bibliog. 64s. or $8. *(C) 327*

SHELL moulding. Brighton, London, Machinery Publishing Co., 1953. pp.94, illus. 4s. *Machinery's Yellow back series—no. 34.* *(C) 328*

TEXTILES

BEEVERS, H.
The practice of Bradford open drawing. National Trade P., 1954. pp.viii,136, illus., tables, diagrs. 12s. 6d. *Textile machinery series.* *(B) 329*

CURTIS, H. P.
The testing of yarns and fabrics. 5th ed. Pitman, 1954. pp.xiii,237, illus., tables, diagrs. 'Previous ed. 1949.' *(B) 330*

HEYN, A. N. J.
Fiber microscopy; a textbook and laboratory manual. New York, Interscience, 1953. pp.396, illus. $5.50. *Interscience manual—no. 2.* *(B) 331*

MONCRIEFF, R. W.
Artificial fibres. 2nd ed. National Trade P., 1954. pp.xii,455, illus., tables, diagrs., bibliog. 30s. 'Previous ed. 1950.' *(B) 332*

BUILDING

GREAT BRITAIN. Building Research Station
Investigations on building fires. Part 6: The fire resistance of reinforced concrete columns, by F. G. Thomas and C. T. Webster. H.M.S.O., 1953. pp.iv,78, plates, tables, diagrs. 30s. *(C) 333*

HAINES, J. E.
Automatic control of heating and air-conditioning. London, New York, [etc.], McG.-H., 1953. pp.370, illus. 54s. or $6.75. *(B) 334*

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ARCHITECTURE

GODFREY, J. A., *and* **CLEARY, R. C.**
School design and construction. Architectural P., 1953. pp.373, plates, plans, tables, diagrs., bibliog. 36s. *(B) 335*

SEGAL, W.
Home and environment. 2nd ed. L. Hill, 1953. pp.xviii,248, front., illus., plates, plans, diagrs. 42s. 'Previous ed. 1948.' *(B) 336*

SUMMERSON, J.
Architecture in Britain, 1530 to 1830. Penguin, 1953. pp.xviii,373, plates, plans, bibliog. 42s. *Pelican history of art series, ed. by N. Pevsner.* *(C) 337*

BIOGRAPHY

ANDRADE, E. N. da C.
Sir Isaac Newton. Collins, 1954. pp.140, front., diagrs., bibliog. 7s. 6d. *Brief lives—no. 11.* *(A) 338*

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The following abbreviations are used in the *Aslib Book-List:*

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L.G.: Longmans, Green

McG.-H.: McGraw-Hill

O. & B.: Oliver and Boyd

O.U.P.: Oxford University Press

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MAY 1954
Nos. 339-422

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PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved: over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months, have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included. Nor are British Standard Specifications (except bound volumes). Any inquiry regarding these should be made direct to the B.S.I., 2 Park Street, London, W.1.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols:

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

(*C*) Books of an advanced or specially technical character.

(*D*) Directories, dictionaries, handbooks, lists and catalogues, encyclopædias, year-books, and similar publications.

A title-page, classified table of contents, and index are issued with the last number of each volume.

The form of entry of references has been altered to comply with British Standard Specification 1629 : 1950.

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GENERAL SCIENCE

SPECK, G. E., *ed.*

The science reader's companion. Ward Lock, 1954. pp.256, front., plates, illus., diagrs., tables. 15s. *(D) 339*

DOCUMENTATION

PARKINSON, A. C.

Intermediate engineering drawing: including a course in plane and solid geometry, and an introduction to design. 4th ed. Pitman, 1954. pp.viii,247, illus., tables, diagrs. 10s. 6d. 'Previous ed. 1950:' *(B) 340*

BIBLIOGRAPHY

UNITED STATES. Library of Congress. Reference Department. Slavic and East European Division.

Russian, Ukrainian, and Belorussian newspapers, 1917–1953; a union list; comp. by P. L. Horecky. Washington, the Library, 1953. pp.xi,218. $1.45. *(D) 341*

GREAT BRITAIN. Her Majesty's Stationery Office

Consolidated index to Government publications, 1946–1950. H.M.S.O., 1954. pp.[2],162. 6s. *(D) 342*

RANGANATHAN, S. R., *and others*

Union catalogue of learned periodical publications in South Asia. Vol. 1: Physical and biological sciences. [Delhi], Indian Library Association; London, Blunt, 1953. pp.390. 60s. or Rs.25. *Indian Library Association English series, 7.* *(D) 343*

LONDON UNIVERSITY. London School of Economics and Political Science. British Library of Political and Economic Science

A London bibliography of the social sciences. Vol. viii, 1936–1950, G–P. The Library, 1954. pp.xi,1054. 80s. 'Studies in economics and political science.' *(D) 344*

LIBRARIANSHIP

[See *400*]

DIRECTORIES AND YEARBOOKS

UNITED NATIONS EDUCATIONAL, SCIENTIFIC AND CULTURAL ORGANIZATION

Directory of institutions engaged in arid zone research. Paris, Unesco; [London, H.M.S.O.], 1953. pp.x,110. 8s. 6d., 400 F. frs. or $1.50. *Arid zone programme.* *(D) 345*

PHILOSOPHY

QUINE, W. van O.

From a logical point of view: 9 logico-philosophical essays. Cambridge (Mass.), Harvard U.P.; London, O.U.P., 1954. pp.vii,184, bibliog. 22s. 6d. or $3.50. *(B) 346*

PSYCHOLOGY

GRIFFITHS, R.

The abilities of babies: a study in mental measurement. University of London Press, 1954. pp.x,229, plates, diagrs., tables, bibliog. 20s. *(B) 347*

SOCIAL SCIENCES

ECONOMICS

JOHNSTON, B. F.

Japanese food management in World War II. Stanford (Cal.), Stanford University Press, 1953. pp.283. $7.50. *Food, agriculture, and World War II.* *(B) 348*

WALKER-WATSON, W.

The finance of land ownership: a policy for the agricultural landowner; with a foreword by His Grace the Duke of Beaufort. Warne, 1954. pp.x,245, illus., tables. 21s. *(B) 349*

[See also *388*]

EDUCATION

SMITH, A. E.

English in the modern school. Methuen, 1954. pp.167, bibliog. 7s. 6d. *(B) 350*

UNITED NATIONS EDUCATIONAL, SCIENTIFIC AND CULTURAL ORGANIZATION

Study abroad; international handbook: fellowships, scholarships, educational exchange. VI, 1953–1954. Paris, Unesco; [London, H.M.S.O.], 1954. pp.711, tables. 7s. 6d., 350 F. frs. or $2. *(D) 351*

ALEXANDER, W. P.

Education in England: the national system—how it works. Newnes Educational Publishing Co., 1954. pp.xi,147, bibliog. 12s. 6d. *(B) 352*

NEWBURY, N. F.

The teaching of chemistry in tropical secondary schools. O.U.P., 1953. pp.xix,299, illus., tables, diagrs., bibliog. 15s. *United Nations Educational, Scientific and Cultural Organization. Handbooks on the teaching of science in tropical countries, ed. by F. Smithies, vol. 9.* *(B) 353*

MATHEMATICS

BENNY, B. B.

Mathematics for students of engineering and applied science. Oxford, O.U.P., 1954. pp.vii,783. 35s. *(B) 354*

FLÜGGE, W.

Four-place tables of transcendental functions. Pergamon, 1954. pp.136, tables, bibliog. 25s. *(B) 355*

MAXWELL, E. A.

An analytical calculus for school and university. Vol. 1. Cambridge, C.U.P., 1954. pp.xii,165, diagrs. 15s. *(B) 356*

CHEMISTRY

PALMER, W. G.

Experimental inorganic chemistry. C.U.P., 1954. pp.xx,578, tables, diagrs., bibliog. 50s. *(B) 357*

BENTLEY, K. W.

The chemistry of the morphine alkaloids. O.U.P., 1954. pp.xix,433, tables, diagrs., bibliog. 50s. *Monographs on the chemistry of natural products, ed. by Sir R. Robinson.* *(B) 358*

PHYSICS

SHAPIRO, A. H.

Dynamics and thermodynamics of compressible fluid flow. Vol. I. New York, Ronald Press, 1953. pp.xiii,647, diagrs. $16. *(C) 359*

HUGHES, D.

Neutron optics. New York, London, Interscience, 1954. pp.vii,136, tables, diagrs. 18s. *Interscience tracts on physics and astronomy series, ed. by R. E. Marshak, no. 1.* *(C) 360*

CRAGGS, J. D., *and* **MEEK, J. M.**

High-voltage laboratory technique. Butterworths, 1953. pp.lx,404, illus., tables, diagrs. 65s. *(C) 361*

GEOLOGY

WILLIAMS, H., *and others*

Petrography: an introduction to the study of rocks in thin sections, by H. Williams, F. J. Turner and C. M. Gilbert. San Francisco, Freeman; London, Bailey & Swinfen, 1954. pp.x,406, illus., tables, bibliog. $6.50 or 56s. *A series of geology texts.* *(B) 362*

PRIOR, G. T.

Catalogue of meteorites, with special reference to those represented in the collection of the British Museum (Natural History). 2nd rev. and enl. ed. edited by M. H. Hey. British Museum, 1953. pp.xxviii,432, tables. 70s. 'Previous ed. 1923.' *(C) 363*

TRUEMAN, ***Sir*** **A. E.,** *ed.*

The coalfields of Great Britain. Edward Arnold, 1954. pp.xi,396, illus., plates, maps, tables, diagrs., bibliog. 63s. *(C) 364*

METEOROLOGY

MILLER, A. A.

Climatology. 8th rev. and reset ed. London, Methuen; New York, Dutton, 1954. pp.x,318, maps, diagrs., bibliog. 21s. 'Previous ed. 1944.' *(B) 365*

BIOLOGY

HALDANE, J. B. S.

The biochemistry of genetics. A. & U., 1954. pp.144, tables, diagrs., bibliog. 15s. *(B) 366*

SMITH, K. M., *and* **MARKHAM, R.**

Mumps, measles and mosaics: a study of animal and plant viruses. Collins, 1954. pp.xii,160, front., illus., plates, table, diagrs., bibliog. 18s. *New naturalist monographs series, ed. by J. Fisher and others, no. 10.* *(B) 367*

ADVANCES in virus research; vol. 1, ed. by K. M. Smith and M. A. Lauffer. New York, Academic Press, 1953. pp.362, illus., diagrs. $8. *(C) 368*

BOTANY

OVERHOLTS, L. O.

The Polyporaceas of the United States, Alaska and Canada; prepared for publication by J. L. Lowe. Ann Arbor, (Mich.), University of Michigan Press, 1953. pp.xiv,466, plates. $7.50. *(C) 369*

NEL, G. C.

The Gibbaeum handbook: a genus of highly succulent plants, native to South Africa: ed. by P. G. Jordaan and E. W. Shurly. Blandford P., 1953. 1953. pp.viii,9–117, illus., map, bibliog. 21s. *(C) 370*

DONY, J. G.

Flora of Bedfordshire. Luton, Museum & Art Gallery, 1953. pp.532, front., plates, map, tables, bibliog. 42s. *(C) 371*

HOLTTUM, R. E.

Plant life in Malaya. L.G., 1954. pp.viii,254. front., illus. 18s. *(B) 372*

ZOOLOGY

PETERSON, A.

A manual of entomological techniques. 7th ed. Ohio State University, Entomology Department, Columbus, Ohio, the author, 1953. pp.367, plates. $7.50. 'Previous editions published with title *Manual of entomological equipment and methods.*' *(C) 373*

RUSSELL, F. S.

The medusae of the British Isles: anthomedusae, leptomedusae, trachymedusae and narcomedusae. Cambridge, C.U.P., 1953. pp.xiii,534, illus., plates, tables, diagrs., bibliog. 130s. *Marine Biological Association of the United Kingdom. E. T. Browne monographs series.* *(C) 374*

PUBLIC HEALTH

BRITISH MUSEUM (NATURAL HISTORY)

Lice. 3rd ed. British Museum (Natural History), 1954. pp.27, front., diagrs. 1s. *British Museum (Natural History), London. Economic series, no. 2A.* 'Previous ed. 1948.' *(A) 375*

ENGINEERING

JAMIESON, J. R., *and others*

Heat emission characteristics of warm-air perimeter heating ducts, by J. R. Jamieson, R. W. Roose, H. T. Gilkey and S. Konzo. Urbana, University of Illinois Engineering Experiment Station, 1953. pp.84. 80¢. *Bulletin no. 412.* *(C) 376*

KEMPE'S engineer's year-book for 1954. 59th ed., edited by C. E. Prockter under the direction of B. W. Pendred. Morgan, 1954. 2 v., illus., diagrs., tables. 75s. *(D) 377*

MECHANICAL

BARNARD, T. R.

Mechanical engineering. Virtue, 1954. pp.xv,440, front., illus., plates, tables, diagrs., bibliog. 50s. *Coal mining series, ed. by E. Mason.* *(B) 378*

ELECTRICAL

SAY, M. G., *ed.*

Magnetic amplifiers and saturable reactors. Newnes, 1954. pp.viii,199, illus., tables, diagrs., bibliog. 21s. *Electrical engineering progress series.* *(B) 379*

SAY, M. G., *ed.*

Rotating amplifiers: the amplidyne, metadyne, magnicon and magnavolt and their use in control systems. Newnes, 1954. pp,vii,152, illus., tables, diagrs., bibliog. 17s. 6d. *Electrical engineering progress series.* *(B) 380*

SAY, M. G., *ed.*

Cathode-ray tubes. Newnes, 1954. pp.vii,216, illus., tables, diagrs., bibliog. *Electrical engineering progress series.* *(B) 381*

ELECTRICAL COMMUNICATIONS

GOLDMAN, S.

Information theory. London, Constable; [New York, Prentice-Hall], 1953. pp.xiii,385, illus., tables, diagrs. 50s. or $9. *Prentice-Hall electrical engineering series.* *(C) 382*

HYDRAULIC

CHOU, Wen-te

Frequency analysis of hydrologic data with special application to rainfall intensities. Urbana, University of Illinois Experiment Station, 1953. pp.80. 80¢. *Bulletin no. 414.* 'A report of an investigation conducted by the Station in cooperation with the Division of Highways, State of Illinois, and the Bureau of Public Roads, U.S. Department of Commerce.' *(C) 383*

AERONAUTICAL

ALEXANDER, L. G., *and others*

Transport of momentum, mass, and heat in turbulent jets, by L. G. Alexander, T. Baron and E. W. Comings. Urbana, University of Illinois Engineering Experiment Station, 1953. pp.88, illus. 75¢. *Bulletin no. 413.* 'A report of an investigation conducted by the Station in cooperation with the Office of Naval Research, Navy Department under contract N6-ori-71, task order XI on the mixing of fluid streams.' *(C) 384*

ASTRONAUTICS

NEWELL, H. E.

High altitude rocket research. New York, Academic Press, 1953. pp.xiv,298, illus. $7.50. *(B) 385*

BURGESS, E.

Rocket propulsion, with an introduction to the idea of interplanetary travel. 2nd rev. ed. C. & H., 1954. pp.235, front., illus., plates, tables, diagrs. 21s. 'Previous ed. 1952.' *(B) 386*

AGRICULTURE

BRADFORD, L. A., *and* **JOHNSON, G. L.**

Farm management analysis. New York, Wiley; London, C. & H., 1953. pp.xii,438, tables, diagrs. 46s. or $5.75. *(B) 387*

JOHNSON, V. W., *and* **BARLOWE, R.**

Land problems and policies. London, New York, [etc.], McGraw-Hill, 1954. pp.422, tables. $6.50 or 52s. *(C) 388*

[See also *349* and *408*]

FERTILIZERS

PIERRE, W. H., *and* **NORMAN, A. G.,** *eds.*

Soil and fertilizer phosphorus in crop nutrition. New York, Academic Press. pp.492, tables, diagrs. $9. *Agronomy—a series of monographs.* *(B) 389*

BEAR, F. E.

Soils and fertilizers. 4th ed. New York, Wiley; London, C. & H., 1954. pp.xiii,420, front., illus., plates, maps, tables, bibliog. 48s. or $6. 'Previous ed. 1942.' *(B) 390*

PESTS

SAMPSON, K., *and* **WESTERN, J. H.**

Diseases of British grasses and herbage legumes; issued for the authors by the British Mycological Society. 2nd ed. Cambridge, C.U.P., 1954. pp.xiii,118, illus., plates, bibliog. 15s. 'Previous ed. Birmingham, British Mycological Society, 1941.' *(C) 391*

GREAT BRITAIN. Ministry of Agriculture and Fisheries

Diseases and pests on horticultural planting material: a guide to their recognition. H.M.S.O., 1953. pp.38, plates. 6s. *(A) 392*

UNITED STATES. Department of Agriculture

Plant diseases. Washington, U.S. Government Printing Office, [1954]. pp.xviii,940, illus., plates, maps. $2.50. *The yearbook of agriculture, 1953.* *(D) 393*

CROPS

ARCHER, S. G., *and* **BUNCH, C. E.**

American grass book; a manual of pasture and range practices. Norman, Oklahoma, Oklahoma U.P., 1953. pp.xxii,330, illus., diagrs., maps, bibliog. $3.95. *(B) 394*

FORESTRY

PRESTON, J. F.

Developing farm woodlands. London, New York, [etc.], McGraw-Hill, 1954. pp.386, illus., tables, diagrs., bibliog. $4.50 or 36s. *McGraw-Hill rural activities.* *(B) 395*

HORTICULTURE

SAUNBY, T.

Soilless culture. Collingridge, 1953. pp.108, illus. 12s. 6d. *(A) 396*

LIVESTOCK

THROWER, W. R.

The Dexter cow and cattle keeping on a small scale. Faber, 1954. pp.200, illus., plates, tables, diagrs. 18s. *(B) 397*

DAIRYING

PETERSEN, W. E., *and* **FIELD, A. M.**

Dairy farming. New York, Lippincott, 1953. pp.534, illus., tables, diagrs. $4. *(B) 398*

RUSSELL, K.

The principles of dairy farming. Lloyds Chambers, Ipswich (Suff.), Dairy Farmer, 1953. pp.278, front., illus., plates, plans, tables, diagrs. 25s. *(A) 399*

PRINTING AND PUBLISHING

CHICAGO. University. Graduate Library School. Annual Conference, 16th

Librarians, scholars and booksellers at mid-century: papers presented before the Sixteenth Annual Conference . . . ; ed. by P. Butler. Chicago, University of Chicago Press; [London, C.U.P.], 1953. pp.vii,107. 28s. or $3.75. *(B) 400*

The **PENROSE** annual: a review of the graphic arts; ed. by R. B. Fishenden. Vol. 48. Lund Humphries, 1954. pp.[14],153, front., illus., plates, tables, diagrs. 30s. *(A) 401*

TRANSPORT

BAPTIST, C.

Tanker handbook for deck officers. Glasgow, Brown, Son & Ferguson, 1954. pp.x,69, front., illus., plates, tables, diagrs. 10s. 6d. *(B) 402*

INDUSTRIAL ORGANIZATION

BIGG, W. W., *and* **DAVIES, J. O.**

Internal auditing. H.F.L. (Publishers), 1953. pp.ix,175. 18s. *(B) 403*

ARBOUS, A. G.

Selection for industrial leadership. O.U.P., 1954. pp.[16],180, plates, tables, diagrs., bibliog. 30s. '. . . an account of selection procedures carried out by the National Institute for Personnel Research under the S.A. Council for Scientific and Industrial Research on behalf of a large industrial corporation in South Africa.' *(C) 404*

MANCHESTER JOINT RESEARCH COUNCIL

Industry and science: a study of their relationship based on a survey of firms in the greater Manchester area carried out 1950–1953. Manchester, Manchester University Press, 1954. pp.viii,188, map, tables. 12s. 6d. *(D) 405*

WOOD, W. E.

Selling in the home market: a guide to its management. C. Lockwood, 1954. pp.x,86, bibliog. 8s. 6d. *(B) 406*

CHEMICAL TECHNOLOGY

Food

SCOTT BLAIR, G. W.

Foodstuffs: their plasticity, fluidity and consistency. New York, Interscience, 1953. pp.280, illus. $7.25. *Deformation and flow series.* *(C) 407*

ORDISH, G.

Wine-growing in England. Hart-Davis, 1954. pp.128, plates, tables, diagrs., bibliog. 7s. 6d. *Countryman library series, no. 3.* 'Includes two chapters on the cultivation of vines.' *(A) 408*

Oils and Fats

PROGRESS in the chemistry of fats and other lipids. Vol. 2; ed. by R. T. Holman, W. O. Lundberg and T. Malkin. Pergamon, 1954. pp.347, plates, tables, diagrs., bibliog. 63s. *Progress series.* *(C) 409*

Glass and Ceramics

KOVEL, R. M., *and* **KOVEL, T. H.**

Dictionary of marks: pottery and porcelain. New York, Crown, 1953. pp.278, illus. $3. *(D) 410*

PAINTS

REMINGTON, J. S., *and* **FRANCIS, W.**

Pigments: their manufacture, properties and use. 3rd rev. ed. L. Hill, 1954. pp.xv,222, plates, tables, diagrs., bibliog. 20s. 'Previous ed. 1949.' *(B) 411*

METALLURGY

AMERICAN SOCIETY FOR METALS

Gases in metals, by D. P. Smith [and others]. Cleveland, Ohio, the Society, 1953. pp.204, illus. $3. 'A series of four educational lectures . . . presented to members of the Society during the thirty-fourth national metal congress and exposition, Philadelphia, Oct. 20–24.' *(C) 412*

SCHWARZKOPF, P., *and* **KIEFFER, R.**

Refractory hard metals: borides, carbides, nitrides, silicides; the basic constituents of cemented hard metals and their use as high temperature materials. New York, Macmillan, 1953. pp.447. $10. *(C) 413*

MANUFACTURES

METALS

POMP, A.

The manufacture and properties of steel wire; translated by C. P. Bernhoeft. The Wire Industry, 1954. pp.xii,358, illus., tables, diagrs., bibliog. 84s. 'Originally published as *Stahldraht*, Düsseldorf, Verlag Stahleisen. 2nd ed. 1952.' *(B) 414*

LONGDEN, E.

Densening and chilling in foundry work: ferrous and non-ferrous casting. Griffin, 1954. pp.xi,178, front., illus., tables, diagrs. 28s. *(B) 415*

SACHS, G.

Fundamentals of the working of metals. Pergamon, 1954. pp.vii,158, illus., plates, bibliog., diagrs. 30s. 'Reprinted from *The Modern Industrial Press.*' *(B) 416*

TEXTILES

HOPKINS, G. E.

Wool as an apparel fiber. New York, Rinehart, 1953. pp.110, illus. $1.50. *(A) 417*

RUBBER

NOBLE, R. J.

Latex in industry. 2nd ed. New York, Rubber Age, 1953. pp.912, illus. $15. *(C) 418*

DRAKELEY, T. J., *ed.*

Annual report on the progress of rubber technology. Vol. 17, 1953. Cambridge, Heffer, for the Institution of the Rubber Industry, 1954. pp.ix,173, bibliog. 21s. *(C) 419*

BUILDING

GREAT BRITAIN. Building Research Board. Heating and Ventilation (Reconstruction) Committee

District heating. H.M.S.O., 1953. 2 v., plates, maps, tables, diagrs., bibliog. 17s. 6d. *Post-war building studies series, nos. 31 and 32.* *(B) 420*

WALLEY, F.

Prestressed concrete, design and construction. H.M.S.O., 1953. pp.xv,279, plates, tables, diagrs., bibliog. 30s. *(C) 421*

WOOD, R. D.

Principles of estimating and price analysis for building works. Estates Gazette, 1954. pp.viii,183, tables, diagrs. 22s. 6d. *(B) 422*

PUBLISHERS

The following abbreviations are used in the *Aslib Book-List:*

A. & U.: Allen & Unwin

C. & H.: Chapman and Hall

C.U.P.: Cambridge University Press

H.M.S.O.: Her Majesty's Stationery Office

L.G.: Longmans, Green

McG.-H.: McGraw-Hill

O. & B.: Oliver and Boyd

O.U.P.: Oxford University Press

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JUNE 1954
Nos. 423-506

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PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved: over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months, have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included. Nor are British Standard Specifications (except bound volumes). Any inquiry regarding these should be made direct to the B.S.I., 2 Park Street, London, W.1.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols:

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

(*C*) Books of an advanced or specially technical character.

(*D*) Directories, dictionaries, handbooks, lists and catalogues, encyclopædias, year-books, and similar publications.

A title-page, classified table of contents, and index are issued with the last number of each volume.

*The form of entry of references has been altered to comply with British Standard Specification 1629 : 1950.

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DOCUMENTATION

PARKINSON, A. C.

Intermediate engineering drawing, including a course in plane and solid geometry, and an introduction to design. 4th ed. Pitman, 1954. pp.viii,247, illus., plates, tables, diagrs. 10s. 6d. 'Previous ed. 1950.' *(B) 423*

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ASSOCIATION OF ASSISTANT LIBRARIANS. Greater London Division

Union list of reference books; a selection of four hundred reference books with locations in some Metropolitan & Greater London Libraries; ed. by A. J. Walford. The Association, 1954. pp.76. 5s. 6d. *(D) 424*

ROWE, R. S.

Bibliography of rivers and harbors and related fields in hydraulic engineering. Princeton, N.J., Princeton University Department of Civil Engineering, Rivers and Harbors Section, 1953. pp.[10],407. $10. *(D) 425*

BIOLOGICAL COUNCIL

A list of abbreviations of the titles of biological journals, selected, by permission, from the 'World list of scientific periodicals'. 2nd ed. H. K. Lewis, 1954. pp.iv,31. 2s. 6d. *(D) 426*

LIBRARIANSHIP

SHORES, L., *ed.*

Challenges to librarianship. Tallahassee, Florida State University, 1953. pp.156. $2, or $1 with paper cover. *Florida State University studies, no. 12.* *(B) 427*

KAPSNER, O. L.

A manual of cataloging practice for Catholic author and title entries; being supplementary aids to the A.L.A. and Vatican Library cataloging rules. Washington, Catholic University of America Press, 1953. pp.ix,107. $2. *Catholic University of America studies in library science, no. 2.* *(D) 428*

INTERNATIONAL BUILDING CLASSIFICATION COMMITTEE

ABC; abridged building classification for architects, builders, civil engineers. [Copenhagen], the Committee; [London, British Standards Institution, 1954]. 2 v. Tables. *F.I.D. publ. no. 261.* 15s. *(D) 429*

LIBRARY ASSOCIATION. London and Home Counties Branch

Bibliography and book stock . . . being papers read at the Annual Week-end Conference . . . held at Tunbridge Wells, 30th April–2nd May, 1954. Eastbourne, the Branch, 1954. pp.56. 5s. *(B) 430*

DIRECTORIES AND YEARBOOKS

[See *435*, *480* and *481*]

PSYCHOLOGY

PALMER, F. C.

The dangers of being human. Bodley Head, 1954. pp.146. 7s. 6d. (*A*) *431*

SOCIAL SCIENCES

MARTIN, E. W.

The secret people: English village life after 1750; being an account of English village people, their lives, work and development through a period of two hundred years; foreword by J. W. Robertson Scott. Phoenix House, 1954. pp.319, illus., plates, bibliog. 21s. (*A*) *432*

STATISTICS

BRITISH ROAD FEDERATION

Basic road statistics, Great Britain and Northern Ireland, 1953. The Federation, 1953. pp.59, tables. 1s. (*D*) *433*

[See also *438*]

ECONOMICS

POLAK, J. J.

An international economic system. Chicago, University of Chicago Press; London, A. & U., 1954. pp.xi,179, tables, diagrs. 21s. (*B*) *434*

The **YEAR BOOK** of agricultural co-operation, 1954; *ed.* by the Horace Plunkett Foundation. Oxford, Basil Blackwell, 1954. pp.iv,400, bibliog. 25s. (*D*) *435*

SCHICKELE, R.

Agricultural policy: farm programs and national welfare. New York, etc., London, McG.-H., 1954. pp.x,453, tables, diagrs. 52s. or $6.50. (*B*) *436*

ALLEN, V. L.

Power in trade unions: a study of their organization in Great Britain. L. G. 1954. pp.xi,323, tables. 25s. (*B*) *437*

CARTER, C. F., *and* **ROY, A. D.**

British economic statistics: a report. Cambridge, C.U.P., 1954. pp.viii,186, tables, bibliog. 21s. *National Institute of Economic and Social Research. Economic and social studies series, no. 14.* (*B*) *438*

LONGRIGG, S. H.

Oil in the Middle East: its discovery and development. O.U.P., 1954. pp.xiii,305, maps, tables. 25s. 'Issued under the auspices of the Royal Institute of International Affairs.' (*B*) *439*

STONE, J. R. N., *and others*

The measurement of consumers' expenditure and behaviour in the United Kingdom, 1920–1938. Vol. 1. Cambridge C.U.P., 1954. pp.xl,448, tables, diagrs., bibliog. 105s. *Studies in the income and expenditure of the United Kingdom series, no. 1.* 'By Richard Stone assisted by D. A. Rowe, W. J. Corlett, R. Hurstfield and M. Potter.' (*B*) *440*

GREAT BRITAIN. Colonial Geological Surveys. Mineral Resources Division

Statistical summary of the mineral industry production, exports and imports, 1946–1952. H.M.S.O., 1954. pp.iv,347, tables. 27s. 6d. (*D*) *441*

EDUCATION

LIVINGSTONE, *Sir* R. W.

On education: the future in education and education for a world adrift. [New ed.] Cambridge, C.U.P., 1954. pp.x,232. 15s. 'Previous ed. published, Toronto, Macmillan, 1944.' *(B) 442*

CASTLE, E. B.

People in school. Heinemann, 1953 [1954]. pp.vii,180. 10s. 6d. *Heinemann education series, ed. by V. Mallinson and others.* *(B) 443*

DENT, H. C.

Growth in English education, 1946–1952. Routledge & K. Paul, 1954. pp.xi,208. 16s. 'A continuation of the author's *Education in transition.*' *(B) 444*

DEMPSTER, J. J. B.

Selection for secondary education: a survey; with a foreword by P. E. Vernon. Methuen, 1954. pp.vii,128, illus., tables, diagrs., bibliog. 8s. 6d. *(B) 445*

The **WORLD** of learning, 1954. 5th ed. Europa Publications, 1954. pp.xii, 1030. 100s. *(D) 446*

EWING, I. R., *and* **EWING, A. W. G.**

Speech and the deaf child. Manchester, Manchester U.P., 1954. pp.xii,256, plates, tables, diagrs., bibliog. 18s. *(B) 447*

LONDON. University. Institute of Education

The problems of secondary education today. Published for the University of London Institute of Education by Evans Bros., 1954. pp.vii,153. 5s. *Studies in education series, no. 6.* *(A) 448*

MATHEMATICS

MAXWELL, E. A.

An analytical calculus for school and university. Vol. 2. Cambridge, C.U.P., 1954. pp.vii,272, tables, diagrs. 18s. 'With answers to examples.' *(B) 449*

ASTRONOMY

WATKINS, H.

Time counts: the story of the calendar. Spearman, 1954. pp.vi,274, front., illus., tables, diagrs. 15s. *(A) 450*

WILKINS, H. P.

Our moon. Muller, 1954. pp.180, front., plates, diagrs. 12s. 6d. *(A) 451*

CHEMISTRY

FLORY, P. J.

Principles of polymer chemistry. New York, Cornell U.P.; London, O.U.P., 1954. pp.xvi,672, tables, diagrs., bibliog. $8.50 or 68s. *(B) 452*

TOMKEIEFF, S. I.

A new periodic table of the elements based on the structure of the atom. C. & H., 1954. pp.32, plate, tables, diagrs. 10s. *(C) 453*

REES, A. L. G.

Chemistry of the defect solid state. London, Methuen; New York, Wiley, 1954. pp.viii,136, tables, diagrs. 8s. 6d. *Methuen's monographs on chemical subjects.* *(B) 454*

PHYSICS

BRUINING, H.

Physics and applications of secondary electron emission. New York, McG.-H.; London, Pergamon, 1954. pp.xii,178, plates, tables, diagrs., bibliog. 25s. *Pergamon science series; electronics and waves—a series of monographs; ed. by D. W. Fry.* (*B*) *455*

SWAINGER, K.

Analysis of deformation. Vol. 1: Mathematical theory. C. & H., 1954. pp.xix,285, diagrs., bibliog. 63s. (*C*) *456*

BRADDICK, H. J. J.

The physics of experimental method. C. & H., 1954. pp.xx,403, tables, diagrs., bibliog. 35s. (*B*) *457*

INTERNATIONAL CONGRESS ON RHEOLOGY

Proceedings of the second International Congress on Rheology, Oxford, 26–31 July 1953; ed. by V. G. W. Harrison. Butterworth, 1954. pp.ix,451, illus., tables, diagrs. 60s. (*C*) *458*

[See also *505*]

MINERALOGY

NIGGLI, P.

Rocks and mineral deposits; trans. by R. L. Parker. San Francisco, W. H. Freeman; London, Bailey Bros. & Swinfen, 1954. pp.xiii,559, illus., tables, diagrs. $12 or 102s. (*B*) *459*

GEOLOGY

GOLDSCHMIDT, V. M.

Geochemistry; ed. by A. Muir. Oxford, Clarendon, 1954. pp.xi,730, tables, diagrs., bibliog. 63s. *International series of monographs on physics, ed. by N. F. Mott and Sir E. Bullard.* (*C*) *460*

PETTERSSON, H.

Westward ho with the 'Albatross'. 'Translated from the Swedish.' Macmillan, 1954. pp.xii,205, front., illus., plates, maps, diagrs. 21s. (*A*) *461*

[See also *441*]

BIOLOGY

HUXLEY, J., *and others, eds.*

Evolution as a process; edited by J. Huxley, A. C. Hardy and E. B. Ford. A. & U., 1954. pp.367, illus., map, tables, diagrs., bibliog. 25s. (*B*) *462*

SOCIETY FOR GENERAL MICROBIOLOGY. Symposium, 4th, London, 1954

Autotrophic micro-organisms; ed. by B. A. Fry and J. L. Peel. Cambridge, published for the Society for General Microbiology at the University P., 1954. pp.xi,305, plate, tables, diagrs., bibliog. 25s. (*C*) *463*

ANTHROPOLOGY

SHAPIRO, H. L.

Race mixture. Paris, Unesco; London, H M.S.O., 1953. pp.56, bibliog. F. frs. 75, 1s. 6d., or 25¢. *The race question in modern science.* (*B*) *464*

ZOOLOGY

CAIN, A. J.

Animal species and their evolution. Hutchinson, 1954. pp.x,190, illus., map, tables, diagrs., bibliog. 8s. 6d. *Hutchinson's university library, biology series, ed. by H. M. Fox.* *(A) 465*

GRAY, A. P.

Mammalian hybrids: a check-list with bibliography. Commonwealth Agricultural Bureaux, 1954. pp.x,144, bibliog. 21s. *Technical communication no. 10 of the Commonwealth Bureau of Animal Breeding and Genetics.* *(D) 466*

PETERSON, R., *and others*

A field guide to the birds of Britain and Europe, by R. Peterson, G. Mountfort, [and] P. A. D. Hollom; introduction by J. Huxley. Collins, 1954. pp.xxxiv,318, illus., plates, maps, diagrs., bibliog. 25s. *(A) 467*

WALKER, E. M.

The odonata of Canada and Alaska. Vol. 1. Toronto, Toronto U.P.; London, O.U.P., 1954. pp.xi,292, illus., tables, bibliog. 105s. *(B) 468*

ENGINEERING

BRITISH INTERNAL COMBUSTION ENGINE MANUFACTURERS' ASSOCIATION

British diesel engine catalogue: oil engines of compression-ignition and associated types for industrial (stationary and transportable), railway traction and marine duties, made by member concerns of the British Internal Combustion Engine Manufacturers' Association. 3rd ed. Ed. by D. S. D. Williams. Published for the Association by Temple Press, 1954. pp.xliii,305, illus., tables, diagrs. 52s. 6d. 'Previous ed. 1950.' *(D) 469*

BERESFORD-EVANS, J.

Form in engineering design: the study of appearance during design and development. Oxford, Clarendon Press, 1954. pp.96, front., illus., plates, tables, diagrs. 10s. 6d. *(C) 470*

Testing Materials

PETERSON, R. E.

Stress concentration design factors: charts and relations useful in making strength calculations for machine parts and structural elements. New York, Wiley; London, C. & H., 1954. pp.x,155, diagrs. $8.50 or 68s. *(C) 471*

RAO, K. L.

Calculation design and testing of reinforced concrete. 2nd ed. Pitman, 1953. pp.xv,424, tables, diagrs., bibliog. 35s. 'Previous ed. 1950.' *(B) 472*

TRATHEN, R. H.

Statics and strength of materials. London, C. & H.; New York, Wiley, 1954. pp.x,506, tables, diagrs. 60s. or $7.50. *(B) 473*

Electrical

STEWARD, W. E.

Modern wiring practice. 2nd ed. Newnes, 1954. pp.viii,228, illus., tables, diagrs. 17s. 6d. *Practical electrical engineering series. General ed. E. Molloy.* 'Previous ed. 1952.' *(B) 474*

GUILLEMIN, E. A.

Introductory circuit theory. New York, Wiley; London, C. & H., 1954. pp.xxv,550, tables, diagrs. 68s. or $8.50. *(B) 475*

[See also *455*]

ELECTRICAL COMMUNICATIONS

SPREADBURY, E. A. W.

Television receiving servicing, Vol. 1. Time-base circuits. Published for *Wireless and Electrical Trader* by Trader Publishing Co., 1954. pp.ix,310, illus., diagrs. 21s. *(B) 476*

MARINE

BARNABY, K. C.

Basic naval architecture. 2nd ed. rev. and enlarged. Hutchinson, 1954. pp.460, tables, diagrs. 35s. *Scientific and technical publications series.* 'Previous ed. 1949.' *(B) 477*

CIVIL

DUNHAM, C. W.

The theory and practice of reinforced concrete. 3rd ed. New York [etc.], London, McG.-H., 1953. pp.xiii,499, illus., tables, diagrs. 56s. *McGraw-Hill series in civil engineering.* *(B) 478*

YOUNG, J. McH.

Foundations. Richmond, Association of Engineering and Shipbuilding Draughtsmen. 1953. pp.73, tables, diagrs., bibliog. 3s. *Association of Engineering and Shipbuilding Draughtsmen, printed pamphlets series.* *(B) 479*

HYDRAULIC

[See *425*]

AUTOMOBILE

The **MOTOR CYCLING** year book 1954; compiled by P. Chamberlain and staff of *Motor Cycling.* Temple Press, 1954. pp.vii,208, front., illus., tables, diagrs. 8s. 6d. *(A) 480*

The **MOTOR** year book 1954; compiled by L. Pomeroy and R. Walkerly. Temple Press, 1954. pp.xxx,226, front., illus., tables, diagrs. 15s. *(A) 481*

BURGESS, R. W.

Velocette. Pearson, 1954. pp.viii,200, illus., tables, diagrs. 6s. *Motor cycle maintenance and repair series, ed. by J. Earney.* *(B) 482*

AERONAUTICAL

GREAT BRITAIN. Aeronautical Research Council

Technical report for the year 1944. H.M.S.O., 1953. 2v. Plates, tables, diagrs., bibliog. 168s. *(C) 483*

AGRICULTURE

GREAT BRITAIN. Agricultural Research Council

Index of agricultural research in progress during 1953–4. London, H.M.S.O., 1954. pp.ix,118. 5s. *(D) 484*

[See also *435*, *436*]

SOILS

JACKS, G. V.

Soil. Nelson, 1954. pp.ix,221, plates, maps, diagrs., bibliog. 12s. 6d. *Nelson's agricultural series, ed. by Sir W. G. Ogg and G. V. Jacks.* *(A) 485*

PESTS

COLSTON RESEARCH SOCIETY
Insecticides and colonial agricultural development: proceedings of the sixth symposium of the Colston Research Society held in the University of Bristol, March 23–27, 1953: ed. by T. Wallace and J. T. Martin. Butterworth, 1954. pp.ix,169, front., illus., maps, tables, diagrs., bibliog. 30s. *(B) 486*

CROPS

HUELSEN, W. A.
Sweet corn. New York, London, Interscience, 1954. pp.xv,409, tables, diagrs. $10.50 or 80s. *Economic crops series, no. 4.* *(C) 487*

BARNETT, A. J. G.
Silage fermentation. Butterworth, 1954. pp.x,208, illus., tables, diagrs., bibliog. 27s. 6d. *(B) 488*

LIVESTOCK

GRANGE, C.
Poultry farming for a living. Macmillan, 1954. pp.x,266, illus., tables. 10s. 6d. *(B) 489*

WHITEHEAD, S. B.
Bees to the heather. Faber, 1954. pp.96, illus., plates, map, diagrs. 12s. 6d. *(A) 490*

FISHER, E. L.
Marine tropicals. Miami, Sub-marine Studios, 1954. pp.56, illus. $1.50. *(A) 491*

NIXON, G. E. J.
The world of bees; illustrations by A. Smith. Hutchinson, 1954. pp.214, front., plates. 12s. 6d. *Hutchinson's nature library series.* *(A) 492*

DAIRYING

HENDERSON, H. O., *and* **REAVES, P. M.**
Dairy cattle feeding and management. 4th ed. New York, Wiley; London, C. & H., 1954. pp.x,614, front., illus., tables, diagrs. 52s. or $6.50. *(B) 493*

KNODT, C. B.
Successful dairying. New York, McG.-H., 1954. pp.xii,381, plates. $5.50. *McGraw-Hill rural activities series.* *(B) 494*

PRINTING AND PUBLISHING

SCARFE, L., *comp.*
Alphabets: an introductory treatise on written and printed letter forms for the use of students. Batsford, 1954. pp.192, front., illus., facsims. 30s. *(B) 495*

TRANSPORT

[See *433*]

CHEMICAL TECHNOLOGY

FUEL

SCHACKNE, S., *and* **DRAKE, N.**
Oil for the world. Esso Petroleum Co., 1954. pp.99, front., illus., maps, diagrs. 12s. 6d. *(A) 496*

[See also *439*]

METALLURGY

MILLER, G. L.

Zirconium. London, Butterworth; New York, Academic Press, 1954. pp.xviii,382, illus., tables, diagrs., bibliog. 45s. or $7.50. *Metallurgy of the rarer metals no. 2, ed. by H. M. Finniston.* *(B) 497*

SULLY, A. H.

Chromium. London, Butterworth; New York, Academic Press, 1954. pp.xii,272, illus., tables, diagrs., bibliog. 35s. *Metallurgy of the rarer metals no. 1, ed. by H. M. Finniston.* *(B) 498*

SEYBOLT, A. U., *and* **BURKE, J. E.**

Procedures in experimental metallurgy. New York, Wiley; London, C. & H., 1954. pp.xi,340, illus., tables, diagrs., bibliog. 56s. *(B) 499*

MANUFACTURES

WOOD

SIMMONDS, A.

Wide bandsaws: the art of saw doctoring. Trade Chronicles in association with Batsford, 1953 [i.e. 1954]. pp.199, illus., tables, diagrs. 18s. '*Woodworking Industry.*' *Handbooks series.* *(B) 500*

BUILDING

LUCAS, E.

Building procedure in the office and on the job. 2nd ed. enlarged. Technical Press, 1953. pp.xv,143, front., plans, diagrs. 15s. 'Previous ed. 1937.' *(B) 501*

CRITTALL, W. F.

A metal window dictionary. Batsford, 1953 [1954]. pp.82, diagrs. 15s. *(B) 502*

KELSEY, W. E.

Carpentry, joinery and woodcutting machinery. Macmillan, 1954. pp.xi,596, illus., diagrs. 50s. *(B) 503*

BAILEY, R. G.

Principles of builders' estimating. Lockwood, 1953. pp.vii,120, tables. 7s. 6d. *(B) 504*

BIOGRAPHY

WOOD, A.

Thomas Young, natural philosopher, 1773–1829, by A. Wood, completed by F. Oldham. C.U.P., 1954. pp.xx,355, front., plates, diagrs., bibliog. 30s. *(A) 505*

BLACKBURN, F.

George Tomlinson; with a foreword by the Rt. Hon. C. R. Attlee. Heinemann, 1954. pp.ix,210, front., plates. 16s. *(B) 506*

PUBLISHERS

The following abbreviations are used in the *Aslib Book-List:*

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H.M.S.O.: Her Majesty's Stationery Office

L.G.: Longmans, Green

McG.-H.: McGraw-Hill

O. & B.: Oliver and Boyd

O.U.P.: Oxford University Press

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VOLUME 19 NUMBER 7
JULY 1954
Nos. 507-589

Aslib members: 12s. p.a.
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PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved: over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months, have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included. Nor are British Standard Specifications (except bound volumes). Any inquiry regarding these should be made direct to the B.S.I., 2 Park Street, London, W.1.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols:

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

(*C*) Books of an advanced or specially technical character.

(*D*) Directories, dictionaries, handbooks, lists and catalogues, encyclopædias, year-books, and similar publications.

A title-page, classified table of contents, and index are issued with the last number of each volume.

The form of entry of references has been altered to comply with British Standard Specification 1629 : 1950.

ASLIB BOOK-LIST

Volume 19 *Number 7* *July 1954*

GENERAL SCIENCE

CROWTHER, J. G.

The sciences of energy: a commentary for the general reader on recent advances in astronomy, physics and chemistry. Muller, 1954. pp. 271, bibliog. 12s. 6d. *(A) 507*

DOCUMENTATION

BLUNT, W. J. W., *and* **CARTER, W.**

Italic handwriting: some examples of everyday cursive hands; introduced by J. Compton. Newman Neame, 1954. pp.5, plates, facsims. 10s. 6d. *(A) 508*

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ASSOCIATION OF ASSISTANT LIBRARIANS. East Midland Division

East Midlands union list of bibliographies: a selection of bibliographies with locations in libraries of the East Midlands; ed. by W. E. French. [Nottingham], the Division, [1954]. pp.27. 2s. 9d. *(D) 509*

HAWKINS, R. R., *ed.*

Scientific, medical and technical books published in the United States of America; a selected list of titles in print with annotations. 2nd supplement, books published 1949–1952. Washington, National Research Council; [New York, R. R. Bowker], 1953. pp.xi,579. $10. *(D) 510*

HOLMSTROM, J. E.

Bibliography of interlingual scientific and technical dictionaries. 3rd ed. Paris, Unesco; London, H.M.S.O., 1953. pp.xviii,178. 10s. 6d., F. fr. 500, or $1.75. *Documentation and terminology of science.* *(D) 511*

LEGGE, C. D., *comp.*

Guide to studies in adult education, 1953; compiled by C. D. Legge for the Universities Council for Adult Education. National Institute of Adult Education, [1954]. pp.32. 2s. *(D) 512*

SZTACHOVA, J., *comp.*

Mid-Europe; a selective bibliography. New York, Mid-European Studies Center of the National Committee for a free Europe, 1953. pp.10, 197. $2. *Publications, no. 10.* *(D) 513*

UNITED STATES. Department of Commerce

United States Department of Commerce publications: 1951–1952 supplement; comp. under the direction of W. M. Johnson. Washington, U.S. Government Printing Office, 1954. pp.xi,191. $1.75. *(D) 514*

WINCHELL, C. M.

Guide to reference books. 7th ed. Supplement, 1950–1952, by C. M. Winchell and O. A. Johnson. Chicago, American Library Association, 1954. pp.117. $3.25. *(D) 515*

LIBRARIANSHIP

CHICAGO. University. Graduate Library School

The core of education for librarianship; a report of a workshop held under the auspices of the school, August 10–15, 1953; ed. by L. Asheim. Chicago, American Library Association, 1954. pp.[10], 68, mimeographed. $1.50. *(B) 516*

OXFORD. Commonwealth Forestry Bureau

The Oxford system of decimal classification for forestry. Definitive English version. Farnham Royal, Bucks., Commonwealth Agricultural Bureaux for International Union of Forestry Research Organizations, 1954. pp.115, tables. 10s. *(D) 517*

PSYCHOLOGY

FREUD, S.

The origins of psycho-analysis; letters to Wilhelm Fliess, drafts and notes; 1887–1902: ed. by M. Bonaparte, A. Freud and E. Kris. Imago, 1954. pp.xi,486, bibliog. 30s. *(C) 518*

HADFIELD, J. A.

Dreams and nightmares. Harmondsworth, Penguin Books, 1954. pp.xii,244. 2s. 6d. *Pelican books series.* *(B) 519*

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SOCIAL SCIENCES

BERGER, M.

Racial equality and the law; the role of law in the reduction of discrimination in the United States. Paris, Unesco; London, H.M.S.O., 1954. pp.76, bibliog. 3s., 50¢ or F. fr. 150. *Race and society series, publication no. 212.* *(B) 520*

MANNING, C. A. W.

The university teaching of social sciences: international relations; report prepared on behalf of the International Studies Conference. Paris, Unesco; [London, H.M.S.O.], 1954. pp.100, 4s., F. fr. 200 or 75¢. *Publication no. 204.* *(A) 521*

ECONOMICS

COMMONWEALTH ECONOMIC COMMITTEE. Intelligence Branch

Industrial fibres, [1954]: a summary of figures of production, trade and consumption relating to cotton, wool, silk, flax, jute, sisal and other hemps, mohair, coir, kapok, rayon and other man-made fibres. H.M.S.O., 1954. pp.iv,166, tables. 3s. *Commodity series.* *(D) 522*

EDUCATION

RICHARDSON, C. A., *and others*

The education of teachers in England, France and the U.S.A. Paris, Unesco, 1954. pp.341. 11s. 6d., $2 or F. fr. 550. *(B) 523*

SIMPSON, J. H

Schoolmaster's harvest; some findings of fifty years, 1894–1944. Faber, 1954. pp.217, tables. 18s. *(B) 524*

[See also *512* and *521*]

MATHEMATICS

PURDAY, H. F. P.
Linear equations in applied mathematics. Edinburgh, London, Oliver & Boyd; New York, Interscience. 1954. pp.xiv,240, tables, diagrs., bibliog. 20s. *(B) 525*

SUTTON, O. G.
Mathematics in action; with drawings and diagrams by A. J. Laurie. Bell, 1954. pp.viii,226, illus., tables, diagrs. 16s. *(B) 526*

THOMAS, *Sir* G. H.
The geometry of mental measurement. University of London P., 1954. pp.60, diagrs. 6s. 6d. *(B) 527*

GEODESY

BULLEN, K. E.
Seismology. Methuen, 1954. pp.viii,132, diagrs. 8s. 6d. *Monographs on physical subjects, ed. by B. L. Worsnop.* *(B) 528*

PHYSICS

AUSTRALIA. Commonwealth Scientific and Industrial Research Organization. Radiophysics Laboratory
A textbook of radar; ed. by E. G. Bowen. Sydney, Angus & Robertson; London, C.U.P., 1954. pp.xiii,617, illus., plates, tables, diagrs. 45s. 'First ed. 1947.' *(B) 529*

FERRARO, V. C. A.
Electromagnetic theory. Athlone P., 1954. pp.viii,555, tables, diagrs. 42s. *(B) 530*

HEITLER, W.
The quantum theory of radiation. 3rd ed. Oxford, Clarendon P., 1954. pp.444, tables, diagrs., bibliog. 45s. *International series of monographs on physics ed. by N. F. Mott and E. C. Bullard.* *(C) 531*

MANN, W. B.
The cyclotron; with a foreword by E. O. Lawrence. 4th ed. London, Methuen; New York, Wiley, 1953. pp.xiv,118, front., illus., diagrs. 8s. 6d. *Monographs on physical subjects, ed. by B. L. Worsnop.* *(C) 532*

SYNGE, J. L.
Geometrical mechanics and De Broglie waves. Cambridge, C.U.P., 1954. pp.viii,167, diagrs., bibliog. 25s. *Cambridge monographs on mechanics and applied mathematics series, ed. by G. K. Batchelor and H. Bondi.* *(C) 533*

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CHEMISTRY

CLAYTON, W.
The theory of emulsions and their technical treatment. 5th ed. rev. by C. G. Sumner. Churchill, 1954. pp.677, illus., tables, bibliog. 72s. *(C) 534*

REILLY, J., *and* RAE, W. M.
Physico-chemical methods. 5th rev. ed. Methuen, 1954. 2 vol., illus., tables diagrs., bibliog. 150s. 'Previous ed. 1943.' *(B) 535*

TURTON, L. M.
Intermediate practical chemistry course; with chapter on practical organic chemistry by J. E. McKail. Glasgow, Blackie, 1954. pp.[5], 138, tables. 5s. *(B) 536*

MINERALOGY AND CRYSTALLOGRAPHY

JOHNSTONE, S. J.
Minerals for the chemical and allied industries. London, C. & H.; New York, Wiley, 1954. pp.692, tables, bibliog. 75s. *(B) 537*

GEOLOGY

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BIOLOGY

ARBER, A.
The mind and the eye: a study of the biologist's standpoint. Cambridge, C.U.P., 1954. pp.xi,146, bibliog. 16s. *(B) 538*

PROGRESS in biophysics and biophysical chemistry; vol. 4; ed. by J. A. V. Butler and J. T. Randall. Pergamon, 1954. pp.viii,339, plates, tables, diagrs., bibliog. 63s. *Progress series.* *(C) 539*

BIOCHEMISTRY

SWIFT, R. W., *and* **FRENCH, C. E.**
Energy metabolism and nutrition. Washington, Scarecrow Press; [London, Bailey & Swinfen,] 1954. pp.264, illus., tables, diagrs., bibliog. 51s. 9d. or $5.75. *(B) 540*

BOTANY

HOLTTUM, R. E.
A new revised flora of Malaya; an illustrated systematic account of the Malayan flora, including commonly cultivated plants; vol. 1; orchids of Malaya. Singapore, Government Printing Office, 1953. pp.v,753, front., plates, illus. $20 Malayan. *(B) 541*

SMITH, G.
An introduction to industrial mycology; foreword by H. Raistrick. 4th ed. Edward Arnold, 1954. pp.xiv,378, illus., tables, diagrs., bibliog. 30s. *(B) 542*

ZOOLOGY

BURR, M.
The insect legion. 2nd. ed Nisbet, 1954. pp.xvi,336, front., plates. 21s. 'Previous ed. 1939.' *(A) 543*

BUTLER, C. G.
The world of the honeybee; with 2 colour photographs and 87 black and white photographs taken by the author. Collins, 1954. pp.xiv,226, front., plates, bibliog. 21s. *New naturalist series ed. by J. Fisher and others, no. 29.* *(A) 544*

ROY, D. N., *and* **BROWN, A. W. A.**
Entomology (medical and veterinary); including insecticides and insect and rat control. 2nd ed. Calcutta, Excelsior Press, 1954. pp.ix,413, plates, illus. 30 Rs. *(B) 545*

PUBLIC HEALTH

LOGAN, J. A., *and others*
The Sardinian project: an experiment in the eradication of an indigenous malarious vector; with collaboration of T. H. G. Aitken and others. Baltimore, Johns Hopkins, 1953. pp.xxix,415, front., plates, illus., map. $7.50. *'American journal of hygiene' monographic series.* *(B) 546*

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VETERINARY SCIENCE

HUNGERFORD, T. J.
Diseases of livestock. 3rd ed. rev. Sydney, Grahame Book, 1953. pp.660, illus. 65s. *(B) 547*

ENGINEERING

NEWNES engineer's reference book; 6th ed., by F. J. Camm. Newnes, 1954. pp.1968, illus., tables, diagrs. 70s. *(D) 548*

Mechanical

FERGUSSON, F. F.
The fundamental principles of water power engineering describing types, applications, and operation of water turbines, and developing the fundamental formulae of water power engineering. 3rd ed. Pitman, 1954. pp.xii,130, illus., tables, diagrs., bibliog. 5s. *Pitman's technical primers series ed. by R. E. Neale.* 'First ed. 1930.' *(B) 549*

Electrical

APPLIED electronics annual, 1953–54 (Annuaire de l'industrie electronique): international yearbook and directory for radio and electronics: ed. R. E. Blaise. British Continental Trade P., 1954. pp.255, illus., tables, diagrs. 20s. *(D) 550*

CHILD, I. H.
Basic principles in electrical engineering. Spon, 1954. pp.xi,112, tables, diagrs. 10s. 6d. *(B) 551*

The **ELECTRICAL** engineer's reference book: a comprehensive work of reference, providing a summary of latest practice in all branches of electrical engineering; general ed. E. Molloy, consulting ed. M. G. Say, associate ed. R. C. Walker. 7th ed. Newnes, 1954. pp.2212, tables, diagrs., bibliog. 70s. *(B) 552*

JACKSON, W., *ed.*
The insulation of electrical equipment. C. & H., 1954. pp.ix,340, plates, tables, diagrs. 42s. *(B) 553*

TELEVISION engineers' pocket book; a compendium of useful data for television engineers, dealers and servicemen; ed. by E. Molloy and J. P. Hawker. Newnes, 1954. pp.228, illus., maps, tables, diagrs. 10s. 6d. *(D) 554*

Electrical Communications

GREENLEES, A. E.
The amplification and distribution of sound. 3rd ed. rev. C. & H., 1954. pp.x,300, tables, diagrs., bibliog. 35s. 'Previous ed. 1948.' *(B) 555*

Internal Combustion

ROBERSON, E. C.
The true book about jet engines and gas turbines; illustrated by R. Forman. Muller, [1954]. pp.143, illus. 6s. *True book series.* *(A) 556*

SMITH, D. H.

The modern diesel: automotive oil engines for transport, marine and industrial use. 12th ed. Iliffe, 1954. pp.254, illus., tables, diagrs. 12s. 6d. 'Previous ed. 1949.' *(B) 557*

MARINE

DE ROOY, G.

Practical shipbuilding. Haarlem, H. Stam, 1954. pp.387, illus., tables, diagrs. Fl. 85. *Ships and marine engines, vol. 3a.* *(C) 558*

SCHOKKER, J. C. A., *and others*

The design of merchant ships by J. C. A. Schokker, E. M. Neuerburg and E. J. Vossnack. Haarlem, H. Stam, 1954. pp.468, illus., tables, diagrs., bibliog. Fl. 60. *Ships and marine engines, vol. 4.* *(C) 559*

CIVIL

BAKER, J. F.

The steel skeleton; vol. 1, elastic behaviour and design. C.U.P., 1954. pp.xi,206, plates, illus., tables. 42s. *(B) 560*

CHARLTON, T. M.

Model analysis of structures: with a foreword by J. A. L. Matheson. Spon, 1954. pp.xiii,142, plates, tables, diagrs., bibliog. 21s. *Spon's civil engineering series, ed. by W. F. Cassie.* *(C) 561*

INSTITUTION OF CIVIL ENGINEERS. Committee on Engineering Bills of Quantity

Standard method of measurement of civil engineering quantities. Institution of Civil Engineers, 1953. pp.vi,22. 3s. 9d. *(B) 562*

AGRICULTURE

SCHERY, R. W.

Plants for man. A. & U., 1954. pp.viii,565, front., illus., maps, tables, diagrs., bibliog. 70s. 'Originally published New York, Prentice-Hall, 1952.' *(B) 563*

PESTS

CHITTY, D., *ed.*

Control of rats and mice. Oxford, Clarendon, 1954. 3 vols. Plates, tables, diagrs., bibliog. 105s. *(C) 564*

MASSEE, A. M.

The pests of fruit and hops, by A. M. Massee, assisted by L. Dicker, R. P. Tew, and G. Fletcher; foreword by V. B. Wigglesworth. 3rd ed. C. Lockwood, 1954. pp.xvi,325, front., plates, diagrs., bibliog. 25s. *Agricultural and horticultural handbooks series, ed. by H. C. Long.* 'Previous ed. 1945.'

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PRINTING AND PUBLISHING

ECKERSTROM, R. E.

Contemporary book design. Urbana, Ill., Beta Phi Mu, 1953. pp.[6], 26, facsims. $3. *Beta Phi Mu chap-book no. 1.* *(B) 566*

TRANSPORT

BONAVIA, M. R.

The economics of transport; with an introduction by C. W. Guillebaud. Rev. ed. London, Nisbet; Cambridge, C.U.P., 1954. pp.xii,219, tables. 8s. 6d. *Cambridge economic handbooks series, ed. by C. W. Guillebaud.* 'Previous ed. 1947.' *(B) 567*

PAYNE, W.
Carriage of goods by sea. 6th ed. by J. M. Holden. Butterworth, 1954. pp.xxvi,179, tables. 21s. 'Previous ed. by J. Samuel-Gibbon, 1949.' *(B) 568*

INDUSTRIAL ORGANIZATION

CHAMBERLIN, C. R.
Filing facts . . . New York, National Filing Aid Bureau, [1953?] pp.x,67, illus. $2.50. *(A) 569*

CHEMICAL TECHNOLOGY

McGREGOR, R. R.
Silicones and their uses. McG.-H., 1954. pp.xv,302, front., illus., tables, diagrs. 42s. 6d. *(B) 570*

MARTIN, G.
Industrial and manufacturing chemistry. Part 2, vols. 1 and 2: Inorganic. 6th ed. rev. by W. Francis, assisted by N. Berkowitz, M. Francis, A. B. Searle. Technical P., 1954. 2 vol. £7. 'Previous ed. 1935.' *(B) 571*

YOUNG, J. F.
Materials and processes. 2nd ed. New York, Wiley; London, Chapman & Hall, 1954. pp.xiii,1074, illus., tables, diagrs., bibliog. $8.50 or 68s. *General electric series.* 'Previous ed. 1944.' *(B) 572*

FOOD

BENNION, E. B.
Breadmaking: its principles and practice. 3rd ed. O.U.P., 1954. pp.xii,411, illus., facsims., tables, diagrs. 42s. 'Previous ed. 1939.' *(C) 573*

OILS AND FATS

INSTITUTE OF PETROLEUM
The post-war expansion of the U.K. petroleum industry: report of the Institute of Petroleum summer meeting held at Buxton, 24–27 June, 1953; ed. by G. Sell. London, Institute of Petroleum, 1954. pp.vii,220, illus., maps, tables, diagrs. 25s. *(B) 574*

PLASTICS

HAIM, G., *and* **NEUMANN, J. A.**
Manual for plastic welding: Polyethylene. C. Lockwood, 1954. pp.xiv,128, plates, tables, diagrs. 30s. *Welding of plastics series, vol. 1.* *(C) 575*

METALLURGY

THOMPSON, H.
Microscopical techniques in metallurgy. Pitman, 1954. pp.xii,146, front., illus., tables, diagrs., bibliog. 18s. *(B) 576*

MANUFACTURES

METALS

BRITISH WELDING RESEARCH ASSOCIATION. Committee on projection welding of steels
Projection welding of mild steel. The Association, 1954. pp.14, illus., tables, diagrs. 3s. 6d. *(B) 577*

GRAY, A. G.
Modern electroplating. New York, Wiley; London, C. & H., 1953 [1954]. pp.xii,563, illus., tables, diagrs., bibliog. 68s. *Electrochemical Society. Publications series.* *(C) 578*

HOWARD, E. D., *ed.*

Modern foundry practice: a practical guide for foundrymen and all interested in the foundry trade: with contributions by ten specialist authors. Odhams, 1954. pp.384, illus., plates, tables, diagrs. 12s. 6d. *(A) 579*

OLLARD, E. A., *and* **SMITH, E. B.**

Handbook of industrial electroplating. 2nd ed. Iliffe for *Metal Industry*, 1954. pp.364, illus., tables. 30s. *(B) 580*

TEXTILES

HALL, A. J.

The standard handbook of textiles. 4th ed. National Trade Press, 1954. pp.viii,328, illus., diagrs., tables. 25s. *(B) 581*

WORMELL, R. L.

New fibres from proteins. Butterworth, 1954. pp.xx,208, tables, diagrs., bibliog. 32s. 6d. *(B) 582*

FINE MECHANISMS

DÉVÉ, C.

Optical workshop principles, by C. Dévé; being a translation made from the third ed. of 'Le travail des verres d'optique de précision' by T. L. Tippell with a preface by C. Fabry. 2nd English ed. Hilger & Watts, 1954. pp.xxiv,436, illus., plates, tables, diagrs. 42s. 'Previous English ed. 1943.' *(C) 583*

MONK, G. S., *and* **McCORKLE, W. H.,** *eds.*

Optical instrumentation; with collaboration of members of the staff of the Optics Section, Metallurgical Laboratory, University of Chicago. New York, McG.-H., 1954. pp.xxv,262, illus., tables, diagrs. $3.75. *National nuclear energy series; Division IV, vol. 8.* *(B) 584*

BUILDING

GREAT BRITAIN. Fire Research Station

Fire hazards of internal linings, by D. Hird and C. F. Fischl. H.M.S.O., 1954. pp.iv,12, illus., plates, tables, diagrs. 1s. 3d. *National building studies special reports series, no. 22.* *(B) 585*

PHILLIPS, B. G.

Building law illustrated: a guide to practice; with a foreword by J. Paton Watson. Spon, 1954. pp.xix,201, tables, diagrs., bibliog. 21s. *(B) 586*

REID, D. A. G.

Building science. Vol. 2. L.G., 1954. pp.248, plates, maps, tables, diagrs. 10s. 6d. *(B) 587*

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ALLINSON, K. L.

35 mm. photography with an Exacta; with special contributions by R. H. Hushton, F. Sharman, C. D. L. Wharry. 3rd rev. ed. London, Fountain Press; Bronxville, Variety Books. pp.126, front., illus. 25s. or $3. *Fountain photobooks series.* *(B) 588*

HARRIS, F., *and* **WAKEFIELD, G. L.**

Modern enlarging technique. Fountain Press, 1954. pp.188, front., illus., tables, diagrs. 12s. 6d. *Fountain photobooks series.* *(B) 589*

PUBLISHERS

The following abbreviations are used in the *Aslib Book-List:*

A. & U.: Allen & Unwin

C. & H.: Chapman and Hall

C.U.P.: Cambridge University Press

H.M.S.O.: Her Majesty's Stationery Office

L.G.: Longmans, Green

McG.-H.: McGraw-Hill

O. & B.: Oliver and Boyd

O.U.P.: Oxford University Press

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AUGUST 1954
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PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved: over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months, have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included. Nor are British Standard Specifications (except bound volumes). Any inquiry regarding these should be made direct to the B.S.I., 2 Park Street, London, W.1.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols:

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

(*C*) Books of an advanced or specially technical character.

(*D*) Directories, dictionaries, handbooks, lists and catalogues, encyclopædias, year-books, and similar publications.

A title-page, classified table of contents, and index are issued with the last number of each volume.

The form of entry of references has been altered to comply with British Standard Specification 1629 : 1950.

ASLIB BOOK-LIST

Volume 19 *Number 8* *August 1954*

DOCUMENTATION

CROUCH, W. G., *and* **ZETLER, R. L.**

A guide to technical writing. 2nd ed. New York, Ronald Press, 1954. pp.iv,441, illus., tables, diagrs. $5. *(B) 590*

MILLS, G. H., *and* **WALTER, J. A.**

Technical writing. New York, Rinehart, 1954. pp.xii,463, facsims., diagrs. $4.50. *(B) 591*

BIBLIOGRAPHY

AUSTRALIA. Commonwealth Scientific and Industrial Research Organization

Union catalogue of the scientific and technical periodicals in the libraries of Australia; ed. by E. R. Pitt. 2nd ed. Supplement: New titles January 1946–December 1952; ed. by A. L. Kent. Melbourne, C.S.I.R.O., 1954. pp.xvi,112, table. 20s. *(D) 592*

GRAHAM, B.

Bookman's manual; a guide to literature. 7th ed. rev. and enlarged by H. R. Hoffman. New York, Bowker, 1954. pp.xvi,820. $10. *(D) 593*

GUIDE to American directories for compiling mailing lists. New York, B. Klein, 1954. pp.[8],108. $10. *(D) 594*

KINGERY, R. E.

How-to-do-it books: a selected guide. 2nd ed. rev. New York, Bowker, 1954. pp.xxv,262. $4.50. *(D) 595*

LIBRARIANSHIP

AMERICAN LIBRARY ASSOCIATION. Committee on Intellectual Freedom

Freedom of communication; proceedings of the First Conference, New York City, 1952; ed. by W. Dix and P. Bixler. Chicago, the Association, 1954. pp.viii,143. $4. *(C) 596*

BRANTLINGER, R., *and others, comps.*

List of subject headings for glass technology; comp. by R. Brantlinger, N. P. H. Jenkins [and] C. D. Mack. Creighton, Pa., Pittsburgh Plate Glass Co.; New York, Corning Glass Works, 1954. pp.v,46. Unpriced. *(D) 597*

CAUTER, T., *and* **DOWNHAM, J. S.**

The communication of ideas; a study of contemporary influences on urban life. Chatto & Windus for The Reader's Digest Association, 1954. pp.xviii,324, plates, tables, diagrs. 25s. *(B) 598*

LIBRARY ASSOCIATION. Reference and Special Libraries Section. Yorkshire Group

Directory of Yorkshire library resources. Leeds, the Group; 1954. pp.72. 6s. (5s. to members). *(D) 599*

ROSE, E.

The public library in American life. New York, Columbia University P.; [London, O.U.P.], 1954. pp.xviii,238. $3.25 or 26s. *(B) 600*

SPECIAL LIBRARIES ASSOCIATION. Geography and Map Division. Map Resources Committee

Map collections in the United States and Canada, a directory; [comp. by M. C. Goodman]. New York, the Association, 1954. pp.352, map. $3. *(D) 601*

UNITED STATES. Armed Forces Medical Library. Current List Division

Subject heading authority list. Washington, the Library, 1954. pp.ix,267. *(D) 602*

DIRECTORIES AND YEARBOOKS

CANADIAN ASSOCIATION OF BRITISH MANUFACTURERS AND AGENCIES

Register of British products and Canadian distributors, 1954–55. Kelly's, Iliffe, 1953. pp.780. 42s. *(D) 603*

PSYCHOLOGY

[See *605*]

SOCIAL SCIENCES

FERGUSON, S., *and* FITZGERALD, H.

Studies in the social services. H.M.S.O., L.G., 1954. pp.ix,367, tables. 22s. 6d. *History of the Second World War, United Kingdom civil series, general series, ed. by Sir K. Hancock.* *(B) 604*

GRYGIER, T.

Oppression: a study in social and criminal psychology; foreword by H. Mannheim. Routledge & K. Paul, 1954. pp.xiv,362, tables, bibliog. 28s. *International library of sociology and social reconstruction, ed. by W. J. H. Sprott.* *(C) 605*

[See also *598*]

STATISTICS

BROSS, I. D. J.

Design for decision. New York, Macmillan, 1953. pp.276, tables. $4.25. *(B) 606*

FRYER, H. C.

Elements of statistics. New York, Wiley; London, C. & H., 1954. pp.viii,262, tables, diagrs. $4.75 or 38s. *Wiley publications in statistics series, ed. by W. A. Shewhart.* *(B) 607*

ECONOMICS

COMMONWEALTH ECONOMIC COMMITTEE. Intelligence Branch

World consumption of wool, 1950–1953: a supplement to 'Wool intelligence'. H.M.S.O., 1954. pp.248, tables. 15s. *(D) 608*

EDUCATION

DEED, B. L.

A history of Stamford School. Stamford, Lincs, Stamford School, 1954. pp.xii,139, front., plates, tables. 15s. *(A) 609*

EGNER, W. E., *and* **YOUNG, A.**

The staffing of grammar schools: a survey of the staffing of 66 grammar schools in the north-west of England, with special reference to the teaching of arts, science and mathematics. Liverpool, Liverpool University P., 1954. pp.20, tables. 2s. *(B) 610*

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS

Directory of forestry schools. Rome, F.A.O.; [London, H.M.S.O.], 1953, pp.vi,299, tables. 15s. or $3. *(D) 611*

HOWE, B.

A galaxy of governesses. Verschoyle, 1954. pp.206, front., plates, facsims., bibliog. 15s. *(A) 612*

KENDON, G.

Children of the new estate. Methuen, 1954. pp.xi,148. 8s. 6d. *(A) 613*

SMITH, T.

Number: an account of work in number with children throughout the primary school stage. Oxford, Blackwell, 1954. pp.vii,159, tables, diagrs., bibliog. 9s. 6d. *(B) 614*

TEXTILE INSTITUTE

Education for careers in textiles: a guide to educational opportunities in textile technology in the United Kingdom. Manchester Textile Institute, 1954. pp.52, tables. Unpriced. *(B) 615*

VERITY, T. E. A.

On becoming a teacher; with a foreword by J. F. Wolfenden. University of London P., 1954. pp.120, bibliog. 6s. *(B) 616*

The **YEARBOOK** of the universities of the Commonwealth, 1954. Published for the Association of Universities of the British Commonwealth by Bell, 1954. pp.lviii,1916, tables. 63s. *(D) 617*

MATHEMATICS

CLARKE, L. H.

Fun with figures. Heinemann, 1954. pp.vii,87, diagrs. 6s. *(A) 618*

STRUIK, D. J.

A concise history of mathematics. Bell, 1954. pp.xix,299, illus., facsims., bibliog. 14s. *(B) 619*

ASTRONOMY

BOYD, R. L. F., *and* **SEATON, M. J.,** *eds.*

Rocket exploration of the upper atmosphere; ed. by R. L. F. Boyd and M. J. Seaton in consultation with H. S. W. Massey. Pergamon, 1954. pp.viii,376, illus. 75s. *(C) 620*

CHEMISTRY

BADGER, G. M.

The structures and reactions of the aromatic compounds. Cambridge, C.U.P., 1954. pp.xiii,456, tables, diagrs. 63s. *(C) 621*

BIKERMAN, J. J., *and others*

Foams; theory and industrial applications. New York, Reinhold; London, C. & H., 1953. pp.v,347, illus. $10 or 80s. *(C) 622*

CLAYTON, W.

The theory of emulsions and their technical treatment. 5th ed. by C. G. Sumner. Churchill, 1954. pp.viii,669, illus., tables, diagrs. 72s. 'Previous ed. 1943.' (*C*) *623*

FUSON, R. C., *and* **SNYDER, H. R.**

Organic chemistry. 2nd ed. New York, Wiley; London, C. & H., 1954. pp.viii,544, tables. $6.50 or 52s. 'This is a unified treatment of the aliphatic and aromatic compounds.' (*B*) *624*

MALM, L. E., *and* **FRANTZ, H. W.**

College chemistry in the laboratory, no. 2. San Francisco, Freeman; London, Bailey & Swinfen, 1954. pp.xxvi,341, illus., tables, diagrs. $3.30 or 27s. 6d. 'The book presents a course in practical chemistry, and should be used with L. Pauling's " College chemistry".' (*B*) *625*

WILKINSON, J. H.

Semi-micro organic preparations. Edinburgh, London, O. & B., 1954. pp.x,94, front., diagrs. 8s. 6d. (*B*) *626*

PHYSICS

GREAT BRITAIN. Atomic Energy Research Establishment

A discussion of the factors affecting the constitution of zirconium alloys, by P. C. L. Pfeil. H.M.S.O., 1953 [i.e. 1954]. pp.[4],35, plates, tables, bibliog. 6s. *Reports series, no. M/R960.* '. . . of interest to specialist workers and . . . of some long term interest to workers engaged on the more practical side of research on zirconium alloys.' (*C*) *627*

KRONIG, R., *ed.*

Textbook of physics; with biographical notes and tables by J. Korringa. London, Pergamon; New York, Interscience, 1954. pp.xv,855, illus., tables, diagrs. 70s. 'Trans. from the 3rd Dutch ed. published in 1951.' (*C*) *628*

ZWIKKER, C.

Physical properties of solid materials. London, Pergamon; New York, Interscience, 1954. pp.viii,300, plates, illus., tables, diagrs., bibliog. 60s. (*C*) *629*

METEOROLOGY

JOHNSON, J. C.

Physical meteorology. New York, Wiley; London, C. & H., 1954. pp.xii,393, tables, diagrs., bibliog. 60s. or $7.50. (*B*) *630*

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BIOLOGY

OGINSKY, E. L., *and* **UMBREIT, W. W.**

An introduction to bacterial physiology. San Francisco, Freeman; London, Bailey & Swinfen, 1954. pp.xi,404, illus., tables, diagrs., bibliog. $6 or 51s. *A series of biology texts.* 'An American textbook to graduate standard.' (*B*) *631*

BIOCHEMISTRY

[See *659*]

ZOOLOGY

BRITISH MUSEUM (NATURAL HISTORY), London

Insects; comp. by J. Smart. 3rd ed. rev. by W. E. China. British Museum, 1954. pp.x, 178, illus., tables, diagrs. 3s. 6d. *Instructions for collectors series, no. 4A.* 'Previous ed. 1949.' *(B) 632*

WALSH, G. B., *and* DIBB, J. R.

A coleopterist's handbook; being volume eleven of 'The Amateur Entomologist.' Amateur Entomologists' Society, 1954. pp.120, plates, illus., tables, diagrs. 15s. *(B) 633*

ENGINEERING

WORLD POWER CONFERENCE

Statistical year-book of the World Power Conference no. 7: annual statistics for 1950–1952 with some supplementary and revised statistics for earlier years and available statistics for 1955; some additional and revised data on resources; ed. with introductory and explanatory texts by F. Brown. Lund Humphries, for the Conference, 1954. pp.160, tables. 40s. *(D) 634*

Testing Materials

BROOKS, W. H.

Strength and elasticity of materials: solutions to examination questions o the University of London. Vol. 3: Part 2 (Internal) B.Sc. (Engineering) papers 1 and 2, 1940–1950. Macdonald, 1954. pp.317, diagrs. 25s. *(B) 635*

Mechanical

WADE, C. F.

Industrial boiler-house efficiency. C. Lockwood, 1954. pp.x,213, illus., tables, diagrs. 15s. 'This book is intended for the works engineer—to help him to obtain the best performance from his plant.' *(B) 636*

Steam

SCORER, S. D.

The operation and maintenance of vertical boilers. Troup, 1954. pp.15, diagrs. 4s. 'Reprinted from *The Steam Engineer.*' *(B) 637*

Electrical

LEWIS, I. A. D., *and* WELLS, F. H.

Millimicrosecond pulse techniques. Pergamon, 1954. pp.xiv,310, plates, tables, diagrs., bibliog. 40s. *Electronics and waves series, ed. by D. W. Fry.* *(B) 638*

PATCHETT, G. N.

Automatic voltage regulators and stabilizers. Pitman, 1954. pp.viii,335, illus., diagrs., bibliog. 50s. *(B) 639*

Workshop Practice

SIMONS, E. N.

The grinding of steel; a comprehensive treatment of modern methods and machines suitable for use in engineering workshops. Odhams, 1954. pp.224, illus., tables, diagrs. 25s. *(B) 640*

Military

DORNBERGER, W.

V2, by W. Dornberger; trans. from the German by J. Cleugh and G. Halliday. Hurst & Blackett, 1954. pp.264, front., plates, diagr. 16s. *(A) 641*

MARINE

SHIP & BOAT BUILDER

Annual review, 1954; comp. by the editorial staff of *Ship & Boat Builder*. Trundell, 1954. pp.462, illus., tables. 30s. (*D*) *642*

AGRICULTURE

ROE, H. B., *and* **AYRES, Q. C.**

Engineering for agricultural drainage. London, New York [etc.], McG.-H., 1954. pp.xvii,501, illus., maps, tables, diagrs., bibliog. 60s. or $7.50. *McGraw-Hill publications in agricultural engineering series, ed. by Q. C. Ayres.* (*B*) *643*

[See also *61*.]

HORTICULTURE

SIMONS, A. J.

Vegetable gardening. Collingridge, 1954. pp.92, illus., table, diagrs. 3s. 6d. '*Amateur gardening' handbook, no. 9.* 'Extremely good value; "sowing chart" especially useful.' (*A*) *644*

HUXLEY, A. J.

House plants. Collingridge, 1954. pp.92, illus., diagrs. 3s. 6d. '*Amateur gardening' handbook no. 10.* 'Excellent of its kind: a textbook for the 120 varieties named.' (*B*) *645*

DAWSON, R. B.

Lawns. Collingridge, 1954. pp.92, illus., diagrs. 3s. 6d. '*Amateur gardening' handbook no. 11.* 'Comprehensive, except for "unorthodox lawns".' (*A*) *646*

LIVESTOCK

ELLIS, J. C. B.

The feeding of farm livestock; foreword by Sir J. Scott Watson. 3rd ed. revised. C. Lockwood, 1954. pp.xv,367, plates, tables. 21s. *Agricultural and horticultural series, ed. by H. C. Long.* (*B*) *647*

PRINTING AND PUBLISHING

BIGGS, J. R.

The use of type: the practice of typography. Blandford, P., 1954. pp.220, illus., diagrs., bibliog. 35s. (*B*) *648*

DOWDING, G.

Finer points in the spacing and arrangement of type. Wace, 1954. pp.xvi,62, front., illus., bibliog. 5s. 6d. *Primers for students of typography series, no. 1.* (*B*) *649*

ENCYCLOPAEDIA typographica; ed. by A. Bastien. Part 1: Decor and classification of type. West Drayton, Middx., Encyclopaedia Typographica Publishing Company, 1953. pp.[4], 333, illus., facsims. 63s. (*D*) *650*

SIMON, O.

Introduction to typography. Rev. ed. Harmondsworth, Middx., Penguin Books for Faber & Faber, 1954. pp.ix,117, facsims., diagrs. 3s. 6d. *Pelican books, A228.* (*B*) *651*

TRANSPORT

AHRONS, E. L.

Locomotive and train working in the latter part of the nineteenth century; ed. by L. L. Asher. Vol. 6. Cambridge, Heffer, 1954. pp.x,77, plates, tables, diagrs. 12s. 6d. 'Reprinted from *The Railway Magazine*.' *(A) 652*

NOCK, O. S.

Locomotives of the North-Eastern Railway. Allan, 1954. pp.viii,198, front., plates, tables. 25s. *(B) 653*

INDUSTRIAL ORGANIZATION

BRITISH COMMONWEALTH SCIENTIFIC CONFERENCE

The application of results of research; comp. and ed. by V. Connell in collaboration with the British Commonwealth Scientific Offices (London). London, Butterworth; [New York, Academic Press], 1954. pp.vii,212. 21s. *(B) 654*

TOVEY, P.

Balance sheets: how to read and understand them; a guide for investors, business men, commercial students, etc. 4th ed. by F. C. de Paula. Pitman, 1954. pp.viii,126, tables. 15s. 'Previous ed. 1937.' *(B) 655*

WOOLLARD, F. G.

Principles of mass and flow production. Iliffe for *Mechanical Handling*, 1954. pp.195, front., illus., diagrs. 25s. *(B) 656*

CHEMICAL TECHNOLOGY

COULSON, J. M., *and* RICHARDSON, J. F.

Chemical engineering. Vol. 1: Fluid flow, heat transfer and mass transfer. Pergamon, 1954. pp.viii,370, front., plates, tables, diagrs. 38s. 6d. *(C) 657*

FUEL

PETROLEUM INFORMATION BUREAU

The world of oil: an outline of a major industry. Petroleum Information Bureau, 1954. pp.36, illus., diagrs. Unpriced. *(B) 658*

FOOD

PREECE, I. A.

The biochemistry of brewing. Edinburgh, London, O. & B., 1954. pp.vii,393, tables, diagrs., bibliog. 25s. *(B) 659*

STRONG, L. A. G.

The story of sugar. Weidenfeld & Nicolson, 1954. pp.159, front., plates, bibliog. 15s. *(B) 660*

METALLURGY

BAILEY, A. R.

A text-book of metallurgy. Macmillan, 1954. pp.viii,560, illus., tables, diagrs., bibliog. 30s. *(B) 661*

MANUFACTURES

Du MOND, T. C.

Fabricated materials and parts: a comparison of cost and design factors. New York, Reinhold; London, C. & H., 1953. pp.332, illus., tables. $6.50 or 52s. *(B) 662*

METALS

FINISHING handbook and directory, 1954; editor, I. S. Hallows, directory editor, A. G. Bennett, assisted by staff of *Product Finishing*. Sawell Publications, 1954. pp.497, illus., tables, diagrs. 21s. *(D) 663*

HALLOWS, I. S., *ed.*

International review of metal finishing. Sawell Publications, 1954. pp.170, illus., tables, diagrs., bibliog. 10s. 6d. *'Product Finishing.' Publications series.* *(B) 664*

TEXTILES

PRESTON, J. M., *ed.*

Fibre science. 2nd rev. enlarged ed. Manchester, Textile Institute, 1953. pp.xix,421, illus., tables, diagrs. 40s. 'Previous ed. 1949.' *(B) 665*

STRONG, J. H.

Textile calculations simplified. National Trade P., 1954. pp.vii,199, plates, tables, diagrs. 21s. *(B) 666*

TEXTILE INSTITUTE

Manual of cotton spinning. Vol. 1. Raw cotton production and marketing: ed. by A. F. W. Coulson. Manchester, Textile Institute. 1954. pp.xiii,222, front., plates, tables, diagrs. 12s. 6d. *(B) 667*

URQUHART, A. R., *and* **HOWITT, F. O.,** *eds.*

The structure of textile fibres: an introductory study. Manchester, Textile Institute, 1953. pp.165, illus., tables, diagrs. 12s. 6d. *(B) 668*

WATSON, W.

Textile design and colour: elementary weaves and figured fabrics. 6th ed. revised by E. G. Taylor and J. Buchan. L.G., 1954. pp.xi,484, illus., tables, diagrs. 42s. 'Previous ed. 1946.' *(B) 669*

[See also *608* and *615*]

FINE MECHANISMS

BANNER, E. H. W.

Electrical measuring instrument practice. United Trade Press, 1954. pp.130, illus., tables, diagrs. 15s. *(B) 670*

TOWN AND COUNTRY PLANNING

LOGIE, G. C.

The urban scene. Faber & Faber, 1954. pp.156, illus., maps, plans, bibliog. 42s. *(B) 671*

PHOTOGRAPHY

MONTELEONI, G.

35-mm. motion picture colour films Ferraniacolor, professional type. Milan, Brugora for Societa Ferrania; London, Fountain P., 1954. pp.45, illus., tables. 7s. 6d. *(B) 672*

GEOGRAPHY

OXFORD economic atlas of the world; prepared by the Economist Intelligence Unit and the cartographic department of the Clarendon Press. Oxford, O.U.P., 1954. pp.vii,152, maps, tables, diagrs. 30s. *(D) 673*

PUBLISHERS

The following abbreviations are used in the *Aslib Book-List:*

A. & U.: Allen & Unwin

C. & H.: Chapman and Hall

C.U.P.: Cambridge University Press

H.M.S.O.: Her Majesty's Stationery Office

L.G.: Longmans, Green

McG.-H.: McGraw-Hill

O. & B.: Oliver and Boyd

O.U.P.: Oxford University Press

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ASLIB BOOK-LIST

MONTHLY RECOMMENDATIONS OF
RECENTLY PUBLISHED
SCIENTIFIC AND TECHNICAL BOOKS

VOLUME 19 NUMBER 9
SEPTEMBER 1954
Nos. 674-758

Aslib members: 12s. p.a.
Non-members: 21s. p.a.

Aslib
4 PALACE GATE, LONDON, W.8.

PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved: over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months, have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included. Nor are British Standard Specifications (except bound volumes). Any inquiry regarding these should be made direct to the B.S.I., 2 Park Street, London, W.1.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols:

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

(*C*) Books of an advanced or specially technical character.

(*D*) Directories, dictionaries, handbooks, lists and catalogues, encyclopædias, year-books, and similar publications.

A title-page, classified table of contents, and index are issued with the last number of each volume.

The form of entry of references has been altered to comply with British Standard Specification 1629 : 1950.

ASLIB BOOK-LIST

Volume 19 *Number 9* *September 1954*

BIBLIOGRAPHY

CANADA. Department of Mines and Technical Surveys. Geographical Branch

A selected list of periodical literature on topics related to Canadian geography for the period 1930–1939. Ottawa, the Department, 1954. pp.iv,97. 50¢. *Bibliographical series, no. 11.* *(D) 674*

HARVARD UNIVERSITY. Library

Catalogue of the Lamont Library, Harvard College; prepared by P. J. McNiff and members of the library staff. Cambridge, [Mass.], Harvard University P.; [London, O.U.P.], 1953. pp.ix,562. $7.50 or 60s. *(D) 675*

STAVELEY, R.

Notes on modern bibliography. Library Association, 1954. pp.vii,111. 10s. (7s. 6d. to members). *(B) 676*

ULTRA ELECTRIC, LTD. Technical Library

A bibliography of colour television, [comp. by K. Bourton]. London, the Television Society, 1954. pp.17. 2s. 6d. *(D) 677*

UNITED STATES. Library of Congress. General Reference and Bibliography Division.

Bibliographical procedures and style: a manual for bibliographers in the Library of Congress, by B. P. McCrum and H. D. Jones. Washington, the Library, 1954. pp.vi,127. 65¢. *(B) 678*

WHITFORD, R. H.

Physics literature; a reference manual. Washington, Scarecrow Press; [London, Bailey Bros. & Swinfen], 1954. pp.228. 45s. or $5. *(B) 679*

LIBRARIANSHIP

ASSOCIATION OF ASSISTANT LIBRARIANS

The Final Examination. Part 1: Bibliography and book selection, by A. J. Walford. The Association, 1954. pp.32, table. 3s. 6d. (3s. to members). *The A.A.L. guides to the Library Association examinations; under the general editorship of A. J. Walford.* *(B) 680*

BRITISH STANDARDS INSTITUTION

Universal decimal classification. Complete English ed., 4th international ed. 678 Macromolecular materials [rubbers and plastics]; 679 Industries based on stone and other processable materials. The Institution, 1954. pp.35, tables. *B.S. 1000; F.I.D. publication no. 179.* 15s. *(D) 681*

SAYERS, W. C. B.

An introduction to library classification, theoretical, historical and practical, with readings, exercises and examination papers. 9th ed. Grafton, 1954. pp.xxvi,320, tables, diagrs. 18s. *(B) 682*

DIRECTORIES AND YEARBOOKS

The **COLUMBIA-VIKING** concise encyclopaedia; comp. and ed. at Columbia University by the staff of the *Columbia encyclopaedia*; W. Bridgewater, ed.-in-chief. Macdonald, 1954. pp.[8],1092, illus., maps. 50s. *(D) 683*

NORTHERN IRELAND. Ministry of Commerce

Who makes what in Northern Ireland, 1954: a directory of goods made in Northern Ireland and the firms making them, together with packers and shippers of agricultural products. Belfast, H.M.S.O., 1954. pp.116, maps. 2s. 6d. *(D) 684*

[See also *705*]

PSYCHOLOGY

[See *685*]

SOCIAL SCIENCES

SEWARD, G. H.

Sex and the social order. Harmondsworth, Penguin Books, 1954. pp.ix,275, illus., tables, diagrs., bibliog. 2s. 6d. *Pelican books series, no. A299.* *(B) 685*

ECONOMICS

CASSADY, R.

Price making and price behaviour in the petroleum industry. New Haven, Yale U.P.; London, O.U.P., 1954. pp.xx,353, tables, diagrs. 32s. or $4. *Petroleum monograph series, vol. 1.* *(C) 686*

KNIGHT, *Sir* H. F.

Food administration in India, 1939–47. Stanford, Stanford U.P., 1954. pp.xii,323. $7.50. *Food, agriculture and World War II.* *(B) 687*

LOCKLIN, D. P.

Economics of transportation. 4th ed. Homewood, Ill., R. Irwin, 1954. pp.xiv,916, illus., maps, diagrs. $6.50. *Irwin series in economics.* *(B) 688*

YAMEY, B. S.

The economics of resale price maintenance. Pitman, 1954. pp.ix,182. 25s. *(B) 689*

EDUCATION

DARLINGTON, C. D.

The place of botany in the life of a university: an inaugural lecture delivered before the University of Oxford on 27 November, 1953. Oxford, Clarendon P., 1954. pp.23. 2s. 6d. *(B) 690*

HAYDEN, H.

Moturiki; a pilot project in community development. Oxford, University Press, 1954. pp.xxiii,180, plates, tables, maps. 42s. 'Published under the auspices of the South Pacific Commission.' *(C) 691*

THYNE, J. M.

Patterns of error in the addition number facts. University of London P., 1954. pp.xx,270, plate, tables. 10s. 6d. *Scottish Council for Research in Education. Publications series, no. 37.* *(C) 692*

DICTIONARIES

PATTERSON, A. McD.

A French-English dictionary for chemists. 2nd ed. New York, Wiley; London, C. & H., 1954. pp.xiv,476. 52s. or $6.50. 'Previous ed. 1921.' *(D) 693*

MATHEMATICS

KLINE, M.

Mathematics in western culture. A. & U., 1954. pp.xii,484, illus., plates, diagrs., bibliog. 30s. *(A) 694*

MACDUFFEE, C. C.

Theory of equations. New York, Wiley, 1954. pp.120, illus., diagrs. $3.75. *(B) 695*

ASTRONOMY

STRUGHOLD, H.

The green and red planet: a physiological study of the possibility of life on Mars; with editorial assistance and a foreword by G. Peyton. Sidgwick and Jackson, 1954. pp.xvi,96, illus., plates, diagrs., bibliog. 7s. 6d. *(A) 696*

PHYSICS

ALLEN, D. N. de G.

Relaxation methods. New York, London, etc., McG.-H., 1954. pp.ix,257, plate, tables, diagrs., bibliog. 33s. 6d. or $7.50. *(B) 697*

GREENWICH. Royal Observatory

Results of the magnetic and meteorological observations made at the Abinger Magnetic Station, Surrey, and the Royal Observatory, Greenwich, respectively in the year 1945, under the direction of Sir H. Spencer Jones. H.M.S.O., 1954. pp.xx,91, tables, diagrs. 35s. *(D) 698*

McCREA, W. H.

Relativity physics. 4th ed. revised. London, Methuen; New York, Wiley, 1954. pp.vii,87, tables, diagrs., bibliog. 6s. *Methuen's monographs on physical subjects series, ed. by B. L. Worsnop.* *(B) 699*

PHYSICAL SOCIETY

Reports on progress in physics: Vol. XVII, 1954; ed. by A. C. Stickland. The Society, 1954. pp.[4],280, plates, tables, diagrs., bibliog. 50s. *(C) 700*

ROTBLAT, J., *ed.*

Atomic energy: a survey. Taylor & Francis for Atomic Scientists' Association, 1954. pp.vii,72, plates, tables, diagrs. 4s. 6d. *Atomic Scientists' Association. Publications series.* *(C) 701*

[See also *679*]

CHEMISTRY

CRAMER, F.

Paper chromatography. 2nd rev. and enlarged ed. trans. [from the German] by L. Richards. Macmillan, 1954. pp.xii,124, illus., plates, tables, diagrs., bibliog. 25s. *(B) 702*

EMMETT, V. H., *ed.*

Catalysis: vol. I; fundamental principles. New York, Reinhold; London, C. & H., 1954. pp.vi,394, illus., tables, diagrs., bibliog. 80s. or $10. 'The first volume of a series which . . . should present the most comprehensive and complete account of this subject yet available.' *(C) 703*

[See also *693*]

METEOROLOGY

[See *698*]

BIOLOGY

GRAY, E. A.

Microbiology: an introduction. C. Lockwood, 1954. pp.xii,175, illus., tables, diagrs., bibliog. 10s. 6d. (*B*) *704*

ANTHROPOLOGY

WENNER-GREN FOUNDATION FOR ANTHROPOLOGICAL RESEARCH, INCORPORATED

International directory of anthropological institutions; ed. by W. L. Thomas, jr., and A. M. Pikelis. New York, the Foundation, 1953. pp.xii,468. $12.50. 'Distributed by the American Anthropological Association.' (*D*) *705*

BIOCHEMISTRY

FISHER, R. B.

Protein metabolism. Methuen, 1954. pp.ix,198, illus., tables, bibliog. 11s. 6d. *Methuen's monographs of biochemical subjects, ed. by Sir R. Peters and F. G. Young.* (*B*) *706*

KOCH, F. C., *and* **HANKE, M. E.**

Practical methods in biochemistry. 6th ed. Baillière, Tindall & Cox, 1954. pp.ix,537, illus., tables, diagrs. 38s. 6d. 'Previous ed. by F. C. Koch, 1948.' (*B*) *707*

ZOOLOGY

FRISCH, K. von

The dancing bees: an account of the life and senses of the honey bee; translated [from the 5th revised German edition] by D. Ilse. Methuen, 1954. pp.xiv,183, illus., plates, diagrs. 16s. (*A*) *708*

ENGINEERING

MECHANICAL

ROSENAUER, N., *and* **WILLIS, A. H.**

Kinematics of mechanisms. Sydney, Associated General Publications; London, New York, Lange, Maxwell & Springer, 1954. pp.xv,395, illus., tables, diagrs. 70s. 'The first comprehensive book, in English, on the analysis of mechanisms.' (*C*) *709*

STEAM

[See *718*]

ELECTRICAL

CABLE, J. W.

Induction and dielectric heating. New York, Reinhold, 1954. pp.576, illus., diagrs. $12.50. (*C*) *710*

CAMM, F. J.

Practical television circuits; with additional chapters on test apparatus and auxiliary equipment. Newnes, 1954. pp.288, illus., tables, diagrs. 15s. (*A*) *711*

CAMM, F. J.

Practical wireless circuits; with additional chapters on test apparatus and auxiliary equipment. Newnes, 1954. pp. 288, illus., tables, diagrs. 15s. (*A*) *712*

DOVER, A. T.

Electric traction. 3rd ed. Pitman, 1954. pp.xiv,441, illus., tables, diagrs. 60s. 'Previous ed. 1929.' *(B) 713*

HAAS, A., *and* **HALLOWS, R. W.**

The oscilloscope at work. Iliffe, for *Wireless World*, 1954. pp.171, illus., diagrs. 15s. 'An extremely useful textbook for the engineer and a handbook for the serviceman.' *(B) 714*

KING, A., *and* **WENTWORTH, V. H.**

Raw materials for electric cables; with a foreword by C. W. Marshall. Benn, 1954. pp.xxi,362, illus., tables, diagrs., bibliog. 42s. *(B) 715*

MOLLOY, E., *comp.*

Crystal rectifiers and transistors; consulting editor, M. G. Say. Newnes, 1954. pp.vi,170, illus., tables, diagrs. 21s. *Electrical engineering progress series, ed. by M. G. Say.* *(B) 716*

TAYLOR, E. O., *ed.*

Power system transients. Newnes, 1954. pp.vii,176, illus., tables, diagrs. 21s. 'With contributions from R. W. Flux, R. H. Golde, D. H. Smith and M. G. Say.' *(C) 717*

INTERNAL COMBUSTION

LEE, J. F.

Theory and design of steam and gas turbines. McG.-H., 1954. pp.xiii,502, illus., tables, diagrs. 64s. 6d. *(B) 718*

SPREADBURY, F. G.

Electrical ignition equipment. Constable, 1954. pp.viii,227, illus., tables, diagrs., bibliog. 25s. *(B) 719*

MINING

BRUCKSHAW, J. McG.

Magnetic variometers of the Schmidt type. Hilger & Watts, 1954. pp.viii,115, illus., tables, diagrs., bibliog. 22s. 'The calibration, operation and maintenance of both vertical and horizontal force instruments is described in detail with admirable clarity, aided by excellent diagrams and photographs.' *(C) 720*

FRITZSCHE, C. H., *and* **POTTS, E. L. J.**

Horizon mining; with foreword by E. H. Browne. A. & U., 1954. pp.xvi,614, illus., tables, diagrs. 75s. *(C) 721*

GUIDE to the coalfields, 1954; ed. by R. H. Walkerdine. Colliery Guardian, 1954. pp.[5],480, plates, maps. 20s. *(D) 722*

MARINE

BLAIR, C.

The atomic submarine and Admiral Rickover. New York, Holt, 1954. pp.277, illus. $3.50. *(A) 723*

ROBB, E. M.

The application of radar to seamanship and marine navigation, by E. M. Robb; with foreword by Sir R. Watson-Watt and appendices which include the lecture by P. G. Satow to the Royal Society of Arts. 2nd enlarged ed. Liverpool, Birchall, 1953, [i.e. 1954]. pp.175, illus., tables, diagrs. 15s. 'Previous ed. 1949.' *(B) 724*

TAYLOR, L. G., *and* **TRIM, F. H.**
The principles of ship stability: the application of the theoretical principles to the practical handling of ships. Revised ed. Glasgow, Brown & Ferguson, 1954. pp.xvii,124, front., plate, tables, diagrs. 10s. 6d. 'Previous ed. 1948.' *(C) 725*

HYDRAULIC

ADDISON, H.
A treatise on applied hydraulics. 4th ed. rev. and enlarged. C. & H., 1954. pp.vii,724, plates, tables, diagrs., bibliog. 56s. *(B) 726*

HADEKEL, R.
Hydraulic systems and equipment. Cambridge, C.U.P., 1954. pp.viii,224, illus., tables, diagrs., bibliog. 18s. *(B) 727*

AERONAUTICAL

NORTH ATLANTIC TREATY ORGANIZATION. Advisory Group for Aeronautical Research and Development
Selected combustion problems; fundamentals and aeronautical applications. Butterworth, 1954. pp.viii,534, plates, tables, diagrs., bibliog. Unpriced. *(C) 728*

ROYAL AERONAUTICAL SOCIETY
Handbook of aeronautics. 4th ed. [General ed. C. G. Burge, technical ed. J. L. Pritchard.]—No. 2: Component design; [co-editors, D. M. A. Leggett, M. Langley]. Pitman, 1954. pp.viii,207, plates, tables, diagrs. 30s. 'Previous ed. 1937.' *(C) 729*

AGRICULTURE

GREAT BRITAIN. Ministry of Agriculture and Fisheries
The calculation of irrigation need. H.M.S.O. pp.vi,37, plates, tables, diagrs., bibliog. 2s. *Technical bulletins series, no. 4.* *(B) 730*

PESTS

DE ONG, E. R.
Insect, fungus and weed control. Thames & Hudson, 1954. pp.400, illus., tables. 52s. 6d. 'Originally published New York, Chemical Publishing Co., 1953. *(B) 731*

FRUIT GROWING

GENDERS, R.
Fruit all the year round. Faber, 1954. pp.[4],246, plates, tables, bibliog. 16s. 'Includes mushrooms and tomatoes.' *(B) 732*

HORTICULTURE

ALLERTON, F. W.
Tomato growing; with a foreword by W. F. Bewley. Faber, 1954. pp.196, front., plates, table. 18s. *(B) 733*

The **CARNATION** year book, 1954: ed. by G. D. Hardwicke. British National Carnation Society, 1954. pp.82, illus., tables. 7s. 6d. *(D) 734*

COWDEROY, J.
Flowers in town; an introductory handbook for the indoor and outdoor gardener; with a foreword by R. Wightman. Newman Neame, 1954. pp.96, plates, illus. 9s. 6d. *(B) 735*

DAWSON, R. B.
Practical lawn craft and management of sports turf; foreword by Sir R. G. Stapledon. 4th ed. rev. Lockwood, 1954. pp.[1],320, plates, map, tables, diagrs., bibliog. 21s. *Agricultural and horticultural series, ed. by H. C. Long.* *(B) 736*

GREAT BRITAIN. Ministry of Agriculture and Fisheries

Carnations under glass. H.M.S.O., 1954. pp.iv,34, front, plates, diagrs. 3s. *Bulletin series, no. 151.* (*B*) *737*

HELLYER, A. G. L.

The encyclopaedia of garden work and terms. London, Collingridge; New York, Transatlantic Arts, 1954. pp.288, illus., diagrs. 21s. or $5. (*D*) *738*

PRINTING AND PUBLISHING

DAVIES, D. W.

The world of the Elseviers, 1580–1712. The Hague, Martinus Nijhoff; [London, Batsford], 1954. pp.vii,159. 15s. (*B*) *739*

MALLABER, K. A.

A primer of bibliography. London, Association of Assistant Librarians, 1954. pp.192, illus., diagrs. 9s. (7s. 6d. to members). (*B*) *740*

PRINTER'S guide and directory, 1954. Holbyrne, 1954. pp.112. 7s. 6d. (*D*) *741*

TRANSPORT

KIDNER, R. W.

Mineral railways. 3rd ed. revised. Oakwood P., 1954. pp.24, illus., maps. 3s. *Light railways handbooks series, no. 7.* (*A*) *742*

[See also *688*]

INDUSTRIAL ORGANIZATION

AMERICAN MANAGEMENT ASSOCIATION

A new approach to office mechanization: integrated data processing through common language machines; the United States Steel Corporation program. New York, the Association, 1954. pp.62, illus., tables, diagrs. $2.50 ($1.75 to members). (*B*) *743*

AMERICAN MANAGEMENT ASSOCIATION

Stepping up office efficiency: organization—cost control—standards. New York, the Association, 1953. pp.46. $1.25 ($1 to members). *Office management series, no. 133.* (*B*) *744*

AMERICAN MANAGEMENT ASSOCIATION

Streamlining office equipment and services. New York, the Association, 1953. pp.35, tables. $1.25 ($1 to members). *Office management series, no. 135.* (*B*) *745*

LONGWORTH, F. K., *ed.*

Footwear retailer's manual. National Trade P., 1954. pp.x,288, illus., diagrs. 25s. 'This welcome book is the first on shoe retailing as a whole to be published in Britain for many years.' (*B*) *746*

CHEMICAL TECHNOLOGY

RUMFORD, F.

Chemical engineering materials. Constable, 1954. pp.x,380, illus., tables, diagrs., bibliog. 32s. 6d. (*B*) *747*

Oils and Fats

ECKEY, E. W.

Vegetable fats and oils; by E. W. Eckey with a chapter by L. P. Miller. New York, Reinhold; [London, C. & H.], 1954. pp.ix,836, illus., tables, bibliog. 132s. or $16.50. 'A comprehensive, up-to-date review of the chemistry of the vegetable fats and oils that will be a standard reference work for years to come.' (*C*) *748*

METALLURGY

HUME-ROTHERY, W., *and* **RAYNOR, G. V.**

The structure of metals and alloys. 3rd ed. (greatly enlarged). Institute of Metals, 1954. pp.viii,363, plates, tables, diagrs. 35s. *Institute of Metals. Monographs and reports series, no. 1.* *(C) 749*

MONYPENNY, J. H. G.

Stainless iron and steel: vol. 2, microstructure and constitution; ed. by F. C. Thompson. 3rd ed. rev. C. & H., 1954. pp.xii,330, plates, illus., tables, bibliog. 55s. 'Greatly expanded to give a comprehensive account of the fundamental information on iron-chromium alloy systems which has accrued since 1931.' *(C) 750*

PROGRESS in metal physics, 5; ed. by B. Chalmers and R. King. Pergamon P., 1954. pp.vii,324, plates, diagrs., bibliog. 60s. *Progress series.* *(C) 751*

MANUFACTURES

METALS

KYLE, P. E.

The closed die forging process. New York, Macmillan, 1954. pp.140, illus., diagrs. $1.50. 'Written with the co-operation of the Technical Committee of the Drop Forging Association.' *(B) 752*

MORISSET, P., *and others*

Chromium plating. Teddington, Middx., R. Draper, 1954. pp.[4],586, illus., tables, diagrs., bibliog. 78s. 'Collaborators: P. Morisset, J. W. Oswald, C. R. Draper, R. Pinner.' *(B) 753*

WILLIS, J.

Deep drawing: a review of the practical aspects of H. W. Swift's researches. Butterworth, 1954. pp.x,134, plates, tables, diagrs., bibliog. 25s. *(C) 754*

TEXTILES

HESS, K. P.

Textile fibers and their use. 5th ed. New York, etc., Lippincott, 1954. pp.xvii,547. $5.50. *(B) 755*

BUILDING

LAXTON'S builders' price book (incorporating Lockwood's builders' price book); ed. and rev. throughout by P. T. Walters. 127th ed. Kelly's Directories, 1954. pp.1024. 30s. *(D) 756*

PHOTOGRAPHY

ALDER, R. H.

Movie-making for everyone. 2nd ed. Fountain Press, 1954. pp.144, illus., tables, diagrs. 9s. 6d. 'First ed. 1949.' *(A) 757*

THOMSON, C. L.

Build your own stereo equipment. Fountain P., 1954. pp.114, illus., diagrs. 9s. 6d. *(C) 758*

GEOGRAPHY

[See *674*]

PUBLISHERS

The following abbreviations are used in the *Aslib Book-List:*

A. & U.: Allen & Unwin

C. & H.: Chapman and Hall

C.U.P.: Cambridge University Press

H.M.S.O.: Her Majesty's Stationery Office

L.G.: Longmans, Green

McG.-H.: McGraw-Hill

O. & B.: Oliver and Boyd

O.U.P.: Oxford University Press

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OCTOBER 1954
Nos. 759-842

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PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved: over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months, have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included. Nor are British Standard Specifications (except bound volumes). Any inquiry regarding these should be made direct to the B.S.I., 2 Park Street, London, W.1.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols:

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

(*C*) Books of an advanced or specially technical character.

(*D*) Directories, dictionaries, handbooks, lists and catalogues, encyclopædias, year-books, and similar publications.

A title-page, classified table of contents, and index are issued with the last number of each volume.

The form of entry of references has been altered to comply with British Standard Specification 1629 : 1950.

ASLIB BOOK-LIST

Volume 19 *Number 10* *October 1954*

SCIENTIFIC RESEARCH

BRITISH COUNCIL

Scientific research in British universities, 1953–54. H.M.S.O. for D.S.I.R., 1954. pp.iii,522. 10s. *(B) 759*

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AMERICAN ARBITRATION ASSOCIATION

Arbitration bibliography. New York, the Association, [1954]. pp.[3],92. $2. *(D) 760*

BLEDSOE, B., *ed.*

Master's theses in science, 1952. Washington, Biblio Press, 1954. pp.[5], 252. $7. *(D) 761*

CALIFORNIA. University. Institute of East Asiatic Studies

Korean studies guide; ed. by R. Marcus. Berkeley, Los Angeles, University of California P.; London, C.U.P., 1954. pp.xii,220, maps. $3 or 26s. 'Compiled by B. H. Hazard, jr., J. Hoyt, H. T. Kim and W. W. Smith, jr.' *(D) 762*

LIBRARY ASSOCIATION

The subject index to periodicals, 1953; general ed. T. R. Powel. The Association, 1954. pp.xi,574. 145s. (120s. to members). *(D) 763*

NEW YORK. Engineering Societies Library

Bibliography on filing, classification, and indexing systems for engineering offices and libraries. New York, the Library, 1954. pp.18, mimeographed. $2. *ESL bibliography no. 9.* *(D) 764*

RINGROSE, C. W., *ed.*

Where to look for your law. 11th ed. Sweet & Maxwell, 1954. pp.vii,186. 6s. 6d. 'Previous ed. by R. H. Stevens.' *(D)765*

UNITED NATIONS. Statistical Office

Bibliography of recent official demographic statistics. New York, United Nations; [London, H.M.S.O.], 1954. pp.iv,80. 80¢. or 6s. *Statistical papers, series M, no. 18.* *(D) 766*

LIBRARIANSHIP

FRICK, B. M.

Sears' list of subject headings. 7th ed. by B. M. Frick, with practical suggestions for the beginner in subject heading work, by M. E. Sears. New York, H. W. Wilson, 1954. pp.xxviii,589. $4. *(D) 767*

GOUCHER COLLEGE, Baltimore. Julia Rogers Library

The college library in a changing world: a conference celebrating the opening of the Julia Rogers Library, April 9–10, 1953. [Baltimore], the College, [1954]. pp.74. $1. *(B) 768*

[See also *764*]

DIRECTORIES AND YEARBOOKS

[See *836*]

PSYCHOLOGY

ANASTASI, A.

Psychological testing. New York, London, Macmillan, 1954. pp.xiv,682, illus., diagrs., bibliog. $6.75 or 47s. (*B*) *769*

CARTWRIGHT, D., *and* **ZANDER, A.**

Group dynamics: research and theory. New York; Row, Peterson; London, Tavistock Publications, 1954. pp.xiv,642. $6 or 35s. (*C*) *770*

[See also *827* and *829*]

SOCIAL SCIENCES

SPROTT, W. J. H.

Science and social action; the Josiah Mason lectures delivered at the University of Birmingham. Watts, 1954. pp.164. 15s. (*A*) *771*

STATISTICS

MUNDY, L.

Statistics for the distributive trades. Macdonald, 1954. pp.152, tables, diagrs. 9s. 6d. *Distributive trade series; general ed. R. G. Magnus-Hannaford.* (*A*) *772*

ECONOMICS

[See *841*]

EDUCATION

A FRENCH teacher's year book, 1954: ed. by R. G. Brettell. University of London P., 1954. pp.143, front., tables, bibliog. 7s. 6d. (*D*) *773*

GARRIS, E. W.

Teaching vocational agriculture. New York, London, McG.-H., 1954. pp.xiii,393, illus., tables. $6.50 or 52s. *McGraw-Hill rural activities series.* (*B*) *774*

JOYNSON, D. C.

Physical education for children: a handbook of objective activities; illustrations by M. Brogden from photographs by the authors. Kaye, 1954. pp.218, illus. 15s. (or 7s. 6d. limp). (*B*) *775*

ÖGREN, G.

Trends in English teachers' training from 1800: a survey and an investigation. Stockholm, Esselte AB; [London, Swedish Institute for Cultural Relations]. pp.213, tables. 10s. 6d. (*B*) *776*

RUSK, R. R.

The doctrines of the great educators. 2nd ed. Macmillan, 1954. pp.vii,311. 10s. 6d. 'Previous ed. 1918.' (*B*) *777*

MATHEMATICS

MAXWELL, E. A.

An analytical calculus for school and university. Vol. 3. C.U.P., 1954. pp.viii,196, tables, diagrs. 15s. (*B*) *778*

SMITH, C. A. B.

Biomathematics: the principles of mathematics for students of biological science; being the 3rd ed. and rewritten version of the work by the late W. M. Feldman. Griffin, 1954. pp.xv,712, tables, diagrs. 80s. 'Previous ed. by W. M. Feldman, 1935.' (*B*) *779*

SMITH, E. S., *and others*

Analytic geometry; by E. S. Smith, M. Salkover and H. K. Justice. 2nd ed. New York, Wiley; London, C. & H., 1954. pp.xiii,306, illus., tables, diagrs. $4 or 32s. 'A simple introduction to elementary co-ordinate geometry of two and three dimensions, with some applications to applied mathematics.' *(B) 780*

TODD, J. A.

Projective and analytical geometry. Revised ed. Pitman, 1954. pp.x,289, diagrs. 25s. 'Has established itself as one of the very best undergraduate introductions to the main lines of modern geometry.' *(B) 781*

NOBBS, C. G.

Elementary mathematics; part 1. O.U.P., 1954. pp.336, tables, diagrs. 9s. 6d. *(B) 782*

VINOGRADOV, I. M.

The method of trigonometrical sums in the theory of numbers; trans. from the Russian, revised and annotated, by K. F. Roth and A. Davenport. Interscience, 1954. pp.x,180. 33s. 'Originally published 1947.' *(C) 783*.

ASTRONOMY

ABETTI, G.

The history of astronomy; trans. from the Italian by B. B. Abetti; with foreword by Sir H. Spencer Jones. Sidgwick & Jackson, 1954. pp.xviii,345, plates, illus. 25s. '. . . a reliable, well-indexed account of the history of astronomy from the earliest times to 1946.' *(B) 784*

ALFVEN, H.

On the origin of the solar system. Oxford, Clarendon P., 1954. pp.[7],194. 30s. *International series of monographs on physics series, ed. by N. F. Mott and E. C. Bullard.* *(C) 785*

PHYSICS

BROWN, R. C.

Sound. L.G., 1954. pp.viii,549–690,v, diagrs. 10s. 6d. *Textbook of physics series, vol. 3.* *(B) 786*

GREEN, A. E., *and* **ZERNA, W.**

Theoretical elasticity. Oxford, Clarendon P., 1954. pp.xiii,442, diagrs. 50s. *(C) 787*

MURRAY, R. L.

Introduction to nuclear engineering. New York, Prentice-Hall, 1954. pp.[14], 418, illus. $9.35. *(C) 788*

STEWART, K. H.

Ferromagnetic domains. Cambridge, C.U.P., 1954. pp.x,176, plates, illus., tables, diagrs., bibliog. 25s. *Cambridge monographs on physics series, ed. by N. Feather and D. Shoenberg.* *(C) 789*

[See also *804*]

CHEMISTRY

COTTRELL, T. L.

The strengths of chemical bonds. London, Butterworth; New York, Academic P., 1954. pp.viii,310, tables, diagrs., bibliog. 30s. or $5.50. 'Of interest to third year students and research workers whose interests lie in the field of molecular structure and reactivity, and answers a real need. . . .' *(C) 790*

GEOLOGY

DU TOIT, A. L.

The geology of South Africa. 3rd ed. edited and prepared for publication by S. H. Haughton. Edinburgh, London, Oliver & Boyd, 1954. pp.xiv,611, plates, illus., maps, tables. 63s. 'Previous ed. 1939.' *(B) 791*

FRANCIS, W.

Coal: its formation and composition. E. Arnold, 1954. pp.viii,567, front., illus., map, tables, diagrs. 84s. *(B) 792*

BIOLOGY

[See *779* and *799*]

BIOCHEMISTRY

ANNUAL review of biochemistry: J. M. Luck, editor; J. S. Loring, G. Mackinney, associate editors. Vol. 23, 1954. Stanford, U.S.A., Annual Reviews; London, H. K. Lewis, 1954. pp.xi,636, plates, table, diagrs., bibliog. 56s. or $7. *(B) 793*

GLICK, D., *ed.*

Methods of biochemical analysis. Vol. 1. New York, London, Interscience, 1954. pp.x,521, illus., tables, diagrs., bibliog. $9.50 or 75s. *(C) 794*

BOTANY

BLACKMAN, F. F.

Analytic studies in plant respiration; ed. by J. Barker. Cambridge, C.U.P., 1954. pp.ix,231, front., tables, diagrs. 40s. *(C) 795*

GILMOUR, J. S. L., *and* **WALTERS, S. M.**

Wild flowers: botanising in Britain. Collins, 1954. pp.xiv,242, illus., plates, tables, diagrs., bibliog. 25s. *New naturalist series, ed. by J. Fisher and others, no. 5.* *(B) 796*

ZOOLOGY

BRITISH MUSEUM (NATURAL HISTORY), London

The horse-flies (Diptera: Tabanidae) of the Ethiopian region. Vol. 2; Tabanus and related genera, by H. Oldroyd. British Museum (Natural History), 1954. pp.x,341, front., illus., plates, maps, tables, diagr., bibliog. 45s. *(C) 797*

GARRIGUS, W. P.

Introductory animal science. Rev. ed. Chicago [etc.], Lippincott, 1954. pp.viii,503, illus. $6. 'First published 1951.' *(B) 798*

RAVEN, C. P.

An outline of developmental physiology; trans. from the Dutch by L. De Ruiter. Pergamon P., 1954. pp.xiii,216, plates, illus., diagrs., bibliog. 17s. 6d. *Pergamon science series.* 'An admirable account, primarily descriptive, of the processes at work during the development of an organism from the fertilised egg onwards.' *(B) 799*

SKAIFE, S. H.

African insect life. Cape Town [etc.], L.G., 1954. pp.viii,387, plates, illus. 63s. (South Africa, 57s. 6d.). *(B) 800*

STURKIE, P. D.

Avian physiology. Ithaca, N.Y., Comstock Publishing Ass., 1954. pp.xx, 423, illus. $6. *(B) 801*

VETERINARY SCIENCE

JONES, L. M.

Veterinary pharmacology and therapeutics. Ames, Iowa State College P., 1954. pp.850, illus. $11. *(B) 802*

WOOLDRIDGE, W. R.

Farm animals in health and disease. C. Lockwood, 1954. pp.xvi,463, plates, illus., tables, diagrs. 30s. *(B) 803*

ENGINEERING

STEPHENSON, R.

Introduction to nuclear engineering. New York, London, McG.-H., 1954. pp.xii,387, illus., tables, diagrs. $8 or 57s. 6d. *McGraw-Hill series in chemical engineering, ed. by S. D. Kirkpatrick.* *(B) 804*

[See also *788*]

Testing Materials

NAUNTON, W. J. S.

What every engineer should know about rubber. British Rubber Development Board, 1954. pp.128, illus., diagrs. 3s. 6d. *(B) 805*

Mechanical

FORBES, W. G.

Lubrication of industrial and marine machinery. 2nd ed. revised by C. L. Pope and W. T. Everitt. New York, Wiley; London, C. & H., 1954. pp.viii, 351, illus., tables, diagrs. $6.50 or 52s. *(B) 806*

Electrical

CARR, T. H.

Electric power stations; with a foreword by Sir L. Pearce: vol. 1. 4th ed. rev. and enlarged. C. & H., 1954. pp.xv,605, front., illus., plates, tables, diagrs., bibliog. 70s. 'Previous ed. 1947.' *(B) 807*

GEYGER, W. A.

Magnetic-amplifier circuits: basic principles, characteristics and applications. New York [etc.], London, McG.-H., 1954. pp.xi,277, illus., tables, diagrs., bibliog. 42s. 6d. or $6. *(C) 808*

WILKINSON, K.

The repair of the small electric motor. Spon, 1954. pp.xii,180, illus., bibliog. 20s. *(B) 809*

Electrical Communications

STARR, A. T.

Telecommunications. Pitman, 1954. pp.ix,454, plates, illus., tables, diagrs. 35s. *Engineering degree series.* 'The book should provide a firm foundation for anyone entering the telecommunication industry.' *(B) 810*

Internal Combustion

KATES, E. J.

Diesel and high compression gas engines, fundamentals. Chicago, American Technical Society; London, Technical P., 1954. pp.viii,396, illus., tables, diagrs. $5.50 or 44s. *(B) 811*

Automobile

JUDGE, A. W.

Automobile electrical maintenance. 3rd ed. Pitman, 1954. pp.vii,256, illus., diagrs. 12s. 6d. *Pitman's automobile maintenance series.* 'Previous ed. 1948.' *(B) 812*

AERONAUTICAL

NILES, A. S., *and* NEWELL, J. S.

Airplane structures. Vol. 1. 4th ed. New York, Wiley; London, C. & H., 1954. pp.xv,607, tables, diagrs., bibliog. 62s. or $7.75. 'Previous ed. 1943.' (*C*) *813*

AGRICULTURE

BROWN, D.

Methods of surveying and measuring vegetation; with a chapter on the theory of sampling by G. M. Jolly. Farnham Royal, Commonwealth Agricultural Bureaux, 1954. pp.xv,223, plates, tables, diagrs., bibliog. 35s. *Commonwealth Bureau of Pastures and Field Crops. Bulletins series, no. 42.* (*B*) *814*

SCHERY, R. W.

Plants for man. A. & U., 1954. pp.viii,565, front., illus., maps, tables, diagrs., bibliog. 70s. (*B*) *815*

[See also *774* and *840*]

FERTILIZERS

LOWE, L. T.

Soil fertility and the use of fertilizers; edited by G. H. Purvis. Worcester, Littlebury, 1954. pp.5,186,illus., tables, diagrs. 12s. 6d. (*B*) *816*

FRUIT GROWING

GREAT BRITAIN. Ministry of Agriculture and Fisheries

Cider apple production; by B. T. P. Barker. 2nd ed. H.M.S.O., 1954. pp.iv,64, plates, illus., tables. 3s. *Bulletins series, no. 104.* (*B*) *817*

HORTICULTURE

HAWTHORN, L. R., *and* POLLARD, L. H.

Vegetable and flower seed production. New York, Blakiston, 1954. pp.xiii, 626, illus., diagrs., bibliog. $7.50. (*B*) *818*

KELWAY, J.

Garden paeonies. Eyre & Spottiswoode, 1954. pp.64, front., plates. 10s. 6d. (*B*) *819*

SANDER, D., *and* COOPER, E.

Orchids and their cultivation. Blandford P., 1954. pp.100, illus., tables, diagr., bibliog. 12s. 6d. (*B*) *820*

LIVESTOCK

WINTERS, L. M.

Animal breeding: with chapters on selection and the effectiveness of selection by W. Rempel, and chapters on fertility and artificial insemination by J. N. Cummings. 5th ed. New York, Wiley; London, C. & H., 1954. pp.ix,420, front., illus., tables, diagrs., bibliog. $5.75 or 46s. 'Previous ed. 1948.' (*B*) *821*

PRINTING AND PUBLISHING

FREER, P.

Bibliography and modern book production; notes and sources for student librarians, printers, booksellers, stationers, book-collectors; elaborated and indexed by V. Berg-Sonne. Johannesburg, Witwatersrand University P.; [London, Lund Humphries], 1954. pp.xiv,345. 20s. (*B*) *822*

SOUTHWARD, J.

Modern printing: the practice and principles of typography and the auxiliary arts. Vol. 2: [ed. by A. P. Pritchard]. 7th ed. Leicester, De Montfort P., 1954. pp.580, front., plates, illus., tables, diagrs. 30s. *(B) 823*

TRANSPORT

LEE, C. E.

The Swansea & Mumbles Railway. 2nd ed. South Godstone, Oakwood P., 1954. pp.[2],50, plates, maps, tables. 7s. 6d. *(A) 824*

SMITH, E. W.

Trans-Pacific passenger ships; with appendix to Trans-Atlantic passenger ships, past and present. Boston, G. H. Dean, 1954. pp.266, illus. $3.50. *(A) 825*

INDUSTRIAL ORGANIZATION

FLOYD, W. F., *and* **WELFORD, A. T.,** *eds.*

Symposium on human factors in equipment design. H. K. Lewis, 1954. pp.viii,132, illus., plates, diagrs., bibliog. 21s. *Ergonomics Research Society. Proceedings series, vol. 2.* *(B) 826*

LING, T. M., *ed.*

Mental health and human relations in industry: with foreword by the Rt. Hon. Lord Horder. H. K. Lewis, 1954: pp.xix,265, plates, tables, diagrs., bibliog. 21s. *(A) 827*

OFFICE MANAGEMENT ASSOCIATION

Clerical salaries analysis, 1954 (as at 1st March, 1954). The Association, 1954. pp.86, tables. 25s. *(B) 828*

VITELES, M. S.

Motivation and morale in industry. Staples P., 1954. pp.xvi,510, tables, diagrs. 50s. *(B) 829*

CHEMICAL TECHNOLOGY

Fuel

SELL, G., *ed.*

Significance of properties of petroleum products. Institute of Petroleum, 1954. pp.74, table, diagr., bibliog. 7s. 6d. *(B) 830*

Oils and Fats

GRIFFITHS, C.

Oils, fats and waxes. Scientific Publications, 1954. pp.90, illus., tables, bibliog. 10s. 6d. *(B) 831*

Glass and Ceramics

INTERNATIONAL COMMISSION ON GLASS

Proceedings. Vol. 1; edited by E. J. Gooding. Butterworth, 1954. pp.120, illus., tables, diagrs., bibliog. 25s. *(C) 832*

Metallurgy

TIN RESEARCH INSTITUTE

The properties of tin. 4th ed. Greenford (Middx.), The Institute, 1954. pp.55, tables. 2s. 6d. *(C) 833*

MANUFACTURES

Textiles

ALEXANDER, P., *and* **HUDSON, R. F.**
Wool: its chemistry and physics. C. & H., 1954. pp.ix,404, plates, tables, diagrs., bibliog. 45s. *(C) 834*

The BRITISH rayon and synthetic fibres manual. 2nd rev. ed. Published in association with British Rayon and Silk Journal by Harlequin P., 1954. pp.ix,364, illus., tables, diagrs. 30s. 'Previously published as "The British rayon manual", 1947.' *(B) 835*

COTTON year book (incorporating the 'Rayon and synthetic fibres annual'). 1954. Manchester, etc., Textile Mercury, 1954. pp.838, illus., tables, diagrs, 12s. 6d. *'Textile Mercury.' Annuals series.* *(B) 836*

MATTHEWS, J. M.
Textile fibres: their physical, microscopic and chemical properties; 6th ed. prepared under the editorship of H. R. Mauersberger. New York, Wiley, 1954. pp.1283, illus. $16.50. *(B) 837*

Fine Mechanisms

GREAT BRITAIN. National Physical Laboratory
Volumetric glassware: scientific aspects of design and accuracy. H.M.S.O., 1954. pp.iv,21, tables, diagrs. 1s. 6d. *Notes on applied science series, no. 6.* *(C) 838*

JONES, B. E., *ed.*
Clock cleaning and repairing. Completely revised ed. Cassell, 1954. pp.176, illus., diagrs. 4s. 6d. *Cassell work handbook series.* 'Originally published 1917.' *(A) 839*

ARCHITECTURE

PENNINGTON, A. M.
Concrete farm structures. Concrete Publications, 1954. pp.vi,153, illus., tables, diagrs. 12s. *Concrete series.* *(B) 840*

GEOGRAPHY

CHISHOLM, C. G.
Handbook of commercial geography. 14th ed. entirely re-written by L. D. Stamp and S. C. Gilmour. L.G., 1954. pp.xiii,915, maps, tables, diagrs. 60s. 'Previous ed. 1937.' *(B) 841*

BIOGRAPHY

RILEY, J. F.
The hammer and the anvil: a background to Michael Faraday. Clapham (Yorks), Dalesman Publishing Co., 1954. pp.[7],40, plates, bibliog. 4s. 6d. *(A) 842*

PUBLISHERS

The following abbreviations are used in the *Aslib Book-List:*

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C. & H.: Chapman and Hall

C.U.P.: Cambridge University Press

H.M.S.O.: Her Majesty's Stationery Office

L.G.: Longmans, Green

McG.-H.: McGraw-Hill

O. & B.: Oliver and Boyd

O.U.P.: Oxford University Press

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NOVEMBER 1954
Nos. 843-925

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PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved: over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months, have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included. Nor are British Standard Specifications (except bound volumes). Any inquiry regarding these should be made direct to the B.S.I., 2 Park Street, London, W.1.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols:

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

(*C*) Books of an advanced or specially technical character.

(*D*) Directories, dictionaries, handbooks, lists and catalogues, encyclopædias, year-books, and similar publications.

A title-page, classified table of contents, and index are issued with the last number of each volume.

The form of entry of references has been altered to comply with British Standard Specification 1629 : 1950.

ASLIB BOOK-LIST

Volume 19 *Number 11* *November 1954*

SCIENTIFIC RESEARCH

LONDON AND HOME COUNTIES REGIONAL ADVISORY COUNCIL FOR HIGHER TECHNOLOGICAL EDUCATION

Applied research in technical colleges. The Council, 1954. pp.43, tables. 2s. 6d. *(D) 843*

DOCUMENTATION

CAMPBELL, W. G.

Form and style in thesis writing. Boston, New York, Houghton Mifflin, 1954. pp.vi,114, tables, diagrs. $1.75 *(B) 844*

WEIL, B. H.

The technical report: its preparation, processing, and use in industry and government. New York, Reinhold, 1954. pp.xii,485, illus., tables, diagrs. $12. *(B) 845*

WISWESSER, W. J.

A line-formula chemical notation. New York, Crowell, 1954. pp.x,149, tables, diagrs. $2. *(B) 846*

BIBLIOGRAPHY

GREAT BRITAIN. Ministry of Agriculture and Fisheries. Library

A selected and classified list of books relating to agriculture, horticulture, etc., in the library of the Ministry of Agriculture and Fisheries. 3rd ed. H.M.S.O., 1954. pp.87. 3s. *Bulletins series, no. 78.* *(D) 847*

HAZLEWOOD, A., *comp.*

The economics of 'under-developed' areas; an annotated reading list of books, articles and official publications. O.U.P., for The Institute of Colonial Studies, 1954. pp.xii,89. 6s. *(D) 848*

HAUSDORFER, A. F.

House organ production; a bibliography. Rev. and enlarged ed. Philadelphia, Pa., Temple University Libraries, 1954. pp.ii,72, mimeographed. $1. *(D) 849*

HENSHAW, R. C., *jr.*

A selected and annotated bibliography of natural gas. Austin, Texas, University of Texas Bureau of Business Research, 1954. pp.61. $1.50. *Bibliography no. 11.* *(D) 850*

INTERNATIONAL ASSOCIATION FOR RESEARCH IN INCOME AND WEALTH

Bibliography on income and wealth, vol. IV: 1951; ed. by P. Deane. Cambridge, Bowes & Bowes, 1954. pp.ix,82. 37s. 6d. *Annotated international bibliographies on income and wealth, vol. 4.* *(D) 851*

PEARSON, J. D.

Oriental manuscript collections in the libraries of Great Britain and Ireland. Royal Asiatic Society, 1954. pp.vi,90. 7s. 6d. *(B) 852*

ROTHAMSTEAD EXPERIMENTAL STATION

Catalogue of serial publications in the library, 1953; ed. by D. H. Boalch. Harpenden, the Station, 1954. pp.viii,356. 17s. 6d. *(D) 853*

SOCIAL SCIENCE RESEARCH COUNCIL. Committee on Civil-Military Relations Research

Civil-military relations; an annotated bibliography, 1940–1952. New York, Columbia University P.; [London, G. Cumberlege], 1954. pp.xiv,140. 16s. *(D) 854*

LIBRARIANSHIP

LANDAU, T., *ed.*

Who's who in librarianship; with a foreword by R. L. Collison. Cambridge, Bowes & Bowes, 1954. pp.xi,269. 50s. *(D) 855*

LEIGH, R. D., *ed.*

Major problems in the education of librarians. New York, Columbia University P.; London, G. Cumberlege, 1954. pp.xi,116, tables. 20s. or $2.50. 'Contributors: L. G. McCusker, K. J. Moses, F. M. Pollard.' *(B) 856*

NETTLETON, A.

All about filing negatives and prints. London, New York, Focal Press, 1954. pp.56, illus., plates, diagrs. 2s. *(B) 857*

TEXAS. University. Graduate School of Library Science

The role of the library in collecting information and giving service to the serious student and research worker: the public library—the college and university library; ed. by E. Stallman. Austin, Texas, the School, 1954. pp.vi,171, mimeographed. Gratis. *(D) 858*

[See also *868*]

DIRECTORIES AND YEARBOOKS

NIGERIA. Department of Commerce and Industries

Handbook of commerce and industry in Nigeria. 2nd ed. Lagos, the Department, 1954. pp.189, maps, tables. 6s. *(D) 859*

[See also *921*]

SOCIAL SCIENCES

BENDIX, R., *and* **LIPSET, S. M.,** *eds.*

Class, status and power: a reader in social stratification. Routledge & K. Paul, 1954. pp.[5],727, tables, diagrs. 42s. *(B) 860*

BROWN, H.

The challenge of man's future. Secker & Warburg, 1954. pp.xii,290, tables, diagrs., bibliog. 21s. 'The author examines the position of man in his relationship to his environment, food supplies and energy resources.' *(B) 861*

GLASS, D. V., *ed.*

Social mobility in Britain. Routledge & K. Paul, 1954. pp.viii,412, tables. 36s. *(B) 862*

STATISTICS

[See *875*]

Political Science

DUVERGER, M.

Political parties: their organization and activity in the modern state; trans. [from the French] by B. and R. North, with foreword by D. W. Brogan. 1st English language ed. London, Methuen; New York, Wiley, 1954. pp.xxxvii,439, tables, diagrs., bibliog. 30s. *(B) 863*

Economics

KAUFMAN, J. J.

Collective bargaining in the railroad industry. New York, King's Crown P., 1954. pp.v,235. $3.75. *(A) 864*

[See also *848* and *851*]

Public Administration

NEWSAM, *Sir* F. A.

The Home Office. London, A. & U.; New York, O.U.P., 1954. pp.224, table, diagr. 15s. *New Whitehall series, ed. by Sir R. Fraser.* *(B) 865*

EDUCATION

BRITISH INSTITUTE OF MANAGEMENT

Education and training in the field of management, vol. II: a survey of short courses held at residential establishments and by professional and other bodies. The Institute, 1954. pp.82. 3s. 6d. (2s. to members). *(B) 866*

EDUCATIONAL FOUNDATION FOR VISUAL AIDS

Visual aids, films and filmstrips, part II: Geography for secondary schools. Rev. and enlarged. The Foundation, 1954. pp.vii,176. 3s. *(D) 867*

UNITED NATIONS EDUCATIONAL, SCIENTIFIC AND CULTURAL ORGANIZATION

Basic facts and figures: illiteracy, education, libraries, museums, books, newspapers, newsprint, film, radio and television. [Rev. ed.] Paris, Unesco; [London, H.M.S.O.], 1954. pp.84, tables. 5s., 250 F. fr. or $1. *(D) 868*

[See also *844*]

MATHEMATICS

BEAUMONT, R. A., *and* BALL, R. W.

Introduction to modern algebra and matrix theory. New York, Rinehart; London, Constable, 1954. pp.xiii,331, tables, diagrs. 30s. or $6. *(B) 869*

NATIONAL PHYSICAL LABORATORY

Automatic digital computation: Proceedings of a symposium held at the National Physical Laboratory on March 25–28, 1953. H.M.S.O., 1954. pp.vi,296, illus., tables, diagrs., bibliog. 21s. *(B) 870*

[See also *872* and *874*]

PHYSICS

GENTNER, W., *and others*

An atlas of typical expansion chamber photographs—Atlas typischer nebelkammerbilder—Atlas de photographies de chambre de Wilson; by W. Gentner, H. Maier-Leibnitz and W. Bothe. Pergamon P., 1954. pp.viii,199, illus., tables, diagrs. 105s. 'Photographs of nuclear transmutations and cosmic ray showers are shown in addition to the tracks of the fundamental particles; the nuclear physicist will find this an excellent reference book.' *(C) 871*

MANDL, F.

Quantum mechanics. Butterworth, 1954. pp.viii,233, diagrs., bibliog. 35s. *(C) 872*

RICHARDSON, K. I. T.

The gyroscope applied. Hutchinson, 1954. pp.384, illus., diagrs., bibliog. 30s. *Scientific and technical publications series.* (*B/C*) *873*

SCHOUTEN, J. A.

Tensor analysis for physicists. 2nd ed. Oxford, Clarendon P., 1954. pp.286, diagrs. 30s. (*C*) *874*

CHEMISTRY

BENNETT, C. A., *and* **FRANKLIN, N. F.**

Statistical analysis in chemistry and the chemical industry. New York, Wiley; London, C. & H., 1954. pp.xvi,724, tables, diagrs., bibliog. $7.25 or 58s. *Wiley publications in statistics.* 'Sponsored by the Committee on Applied Mathematical Statistics, National Research Council.' (*C*) *875*

EITEL, W. H. J.

Physical chemistry of silicates. Chicago, University of Chicago P., 1954. pp.1592, diagrs. $30. (*C*) *876*

[See also *846*]

MINERALOGY AND CRYSTALLOGRAPHY

BRITISH MUSEUM (NATURAL HISTORY), London. Mineral Department

Catalogue of the rock collections in the Mineral Department of the British Museum (Natural History) arranged geographically: Part 3, Antarctica and Australasia; by W. Campbell Smith and P. M. Game. The Museum, 1954. pp.255. 12s. (*D*) *877*

GEOLOGY

LOEWINSON-LESSING, F. Y.

A historical survey of petrology; trans. from the Russian by S. I. Tomkeieff. Edinburgh and London, Oliver & Boyd, 1954. pp.x,112, bibliog. 12s. 6d. (*C*) *878*

PHILLIPS, F. C.

The use of stereographic projection in structural geology. Edward Arnold, 1954. pp.vii,86, diagrs., bibliog. 15s. (*C*) *879*

BIOCHEMISTRY

FRANCIS, G. E., *and others*

Isotopic tracers: a theoretical and practical manual for biological students and research workers; by G. E. Francis, W. Mulligan and A. Wormall, with a foreword by G. Hevesy. Athlone P., 1954. pp.xvii,306, illus., tables, diagrs., bibliog. 37s. 6d. (*B*) *880*

BOTANY

STEPHENS, E. L.

Some South African poisonous and inedible fungi; with illustrations by M. M. Kidd and foreword by A. A. Pearson. Cape Town and London, L.G., 1954. pp.v,31, plates, illus. 6s. *Longmans' field handbooks.* (*A*) *881*

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Some South African edible fungi; with illustrations by M. M. Kidd and foreword by A. A. Pearson. Cape Town and London, L.G., 1954. pp.viii,35, plates, illus. 6s. *Longmans' field handbooks.* (*A*) *882*

ZOOLOGY

BRITISH MUSEUM (NATURAL HISTORY), London

List of the land mammals of New Guinea, Celebes and adjacent islands, 1758–1952; by E. M. O. Laurie and J. E. Hill. The Museum, 1954. pp.[4],175, front., plates, bibliog. 30s. (*D*) *883*

LOWE, F. A.

The heron. Collins, 1954. pp.xiii,177, front., plates, illus., maps, tables, diagrs., bibliog. 18s. *New naturalist monographs series, no. 11.* *(A) 884*

VETERINARY SCIENCE

KIRK, W. H.

Index of treatment in small-animal practice. 3rd ed. Baillière, Tindall & Cox, 1954. pp.vii,888, illus., tables. 45s. *(B) 885*

ENGINEERING

Testing Materials

ROARK, R. J.

Formulas for stress and strain. 3rd ed. New York, London, McG.-H., 1954. pp.381. $7.50 or 53s. 6d. *(C) 886*

Electrical

BRITISH ELECTRICAL DEVELOPMENT ASSOCIATION

Electric commercial catering handbook: a guide to design, installation and maintenance. The Association, 1954. pp.66, illus., diagrs. 5s. *(C) 887*

ELECTRICAL who's who, 1954; comp. by *Electrical Review.* 3rd ed. Iliffe, for Electrical Review Publications, 1954. pp.354. 21s. *(D) 888*

HALLOWS, R. W.

Television simply explained. 2nd ed. rev. C. & H., 1954. pp.196, plates, illus., diagrs. 10s. 6d. *(A) 889*

HUGHES, E.

Fundamentals of electrical engineering; based on the rationalised M.K.S. system of units. L.G., 1954. pp.xiv,470, tables, diagrs. 12s. 6d. 'A text on electrical fundamentals suitable for students taking the third year O.N.C. course, first year degree course and intermediate C. and G. electrical engineering practice examinations, and highly recommended.' *(B) 890*

SCROGGIE, M. G.

Radio laboratory handbook. 6th ed. Iliffe, for *Wireless World,* 1954. pp.436, illus., tables, diagrs. 25s. *(B) 891*

'WIRELESS WORLD'

Radio valve data: characteristics of 2,000 valves and cathode-ray tubes; comp. by the staff of *Wireless World.* 4th ed. Iliffe, for *Wireless World,* 1954. pp.100, tables, diagrs. 3s. 6d. *(B) 892*

Mining

HARRISON, H. L.

Valuation of alluvial deposits. 2nd ed. rev. and enlarged. Mining Publications, 1954. pp.xi,308, plates, illus., tables, diagrs. 45s. *(B) 893*

Automobile

'THE AUTOCAR'

Know your car: a simple explanation of its mechanism; comp. by the staff of *The Autocar.* 4th ed. Iliffe, for *The Autocar,* 1954. pp.108, illus., diagrs. 2s. 6d. *(A/B) 894*

AERONAUTICAL

DUKE, N., *and* LANCHBERY, E.

'Sound barrier': the story of high speed flight. 6th ed. rev. and enlarged. Cassell, 1954. pp.xi,129, plates, diagrs. 8s. 6d. *(A/B) 895*

GATLAND, K. W.

Development of the guided missile. 2nd ed. Iliffe, for *Flight*, 1954. pp.292, illus., tables, diagrs., bibliog. 15s. *(B) 896*

AGRICULTURE

ORWIN, Charles Stewart, *and* ORWIN, Christabel Susan

The open fields. 2nd ed. Oxford, Clarendon P., 1954. pp.xiv,190, plates, illus., maps. 30s. *(B) 897*

SOILS

SMALL, J.

Modern aspects of pH; with special reference to plants and soils. Baillière, Tindall & Cox, 1954. pp.xi,247, plate, tables, diagrs., bibliog. 20s. *(C) 898*

PESTS

GREAT BRITAIN. Ministry of Agriculture and Fisheries

Report on insect pests of crops in England and Wales, 1938–1943. H.M.S.O., 1954. pp.v,91, map, tables. 3s. 6d. *Technical bulletins series, no. 5.* *(B) 899*

HORTICULTURE

BARBER, A. C.

Annual flowers: a guide to the best species and garden varieties of annual flowers, including also perennial plants which can be grown as annuals, with chapters describing their cultivation and uses. Faber, 1954. pp.278, front., plates. 25s. *(B) 900*

COUTTS, J., *and others*

The complete book of gardening; by J. Coutts, A. Osborn and A. Edwards. New ed. rev. by G. H. Preston. Ward, Lock, 1954. pp.576, front., plates, illus., tables. 35s. *(B) 901*

SCHWANTES, M. H. G.

The cultivation of Mesembryanthemaceae; ed. by E. W. Shurly. Blandford P., 1954. pp.xiv,88, plates, illus., bibliog. 15s. *(B) 902*

LIVESTOCK

PETERS, W. H., *and* GRUMMER, R. H.

Livestock production. 2nd ed. New York, London, McG.-H., 1954. pp.xi,415, illus., tables, diagrs. $6. or 48s. *McGraw-Hill publications in the agricultural sciences.* *(B) 903*

PRINTING AND PUBLISHING

BOOK dealers in North America; a directory of dealers in secondhand and antiquarian books in Canada and the United States of America, 1954–55. Sheppard P., 1954. pp.178, map. 12s. 6d. *(D) 904*

BOOKSELLERS ASSOCIATION OF GREAT BRITAIN AND IRELAND

A directory of British publishers. The Association, 1954. pp.xii,173. 6s. 6d. *(D) 905*

ESDAILE, A.

A student's manual of bibliography. 3rd ed. revised by R. Stokes. A. & U. & The Library Association, 1954. pp.392, illus., plates, facsims. 18s. (16s. to members). *The Library Association series of library manuals, I.* (*B*) *906*

MOSSON, A. E.

The Typographical Association: origins and history up to 1949. Oxford, G. Cumberlege for the Association, 1954. pp.558, illus., diagrs. 30s. (*B*) *907*

ROSNER, C.

The growth of the book jacket. Sylvan P., 1954. pp.78, illus. 28s. (*B*) *908*

ROSNER, C., *ed.*

Type principles and application. 2nd ed. Balding & Mansell, 1954. pp.106, illus., diagrs. 7s. 6d. (*B*) *909*

[See also *849* and *868*]

TRANSPORT

LAMB, J.

Oil tanker cargoes: their safe and efficient handling. Griffin, 1954. pp.208, illus. 18s. (*B/C*) *910*

INDUSTRIAL ORGANIZATION

[See *866*]

CHEMICAL TECHNOLOGY

Food

GREAT BRITAIN. Department of Scientific and Industrial Research

Research on food preservation in the United Kingdom. H.M.S.O., 1954. pp.iv,56. 2s. (*D*) *911*

HORDER, T. J., 1st Baron Horder, *and others*

Bread: the chemistry and nutrition of flour and bread, with an introduction to their history and technology; by Lord Horder, Sir C. Dodds and T. Moran. Constable, 1954. pp.[14],186, illus., diagrs., bibliog. 18s. (*C*) *912*

Dyeing and Bleaching

VICKERSTAFF, T.

The physical chemistry of dyeing. 2nd rev. ed. Edinburgh and London, Oliver & Boyd for Imperial Chemical Industries Ltd., 1954. pp.viii,514, plates, tables, diagrs., bibliog. 42s. 'Previous ed. 1950.' 'An authoritative work embracing all aspects of dyeing practice, technology and research.' (*C*) *913*

Metallurgy

BUTTS, A., *ed.*

Copper: the science and technology of the metal, its alloys and compounds; with chapters by specialists. New York, Reinhold. pp.936, illus., diagrs. $20. *American Chemical Society monograph series.* (*C*) *914*

HOYT, S. L.

Metals properties. New York, London, McG.-H., 1954. pp.iii,440. $11 or 78s. 6d. (*D*) *915*

WOLDMAN, N. E.

Engineering alloys: names, properties, uses. 3rd ed. Cleveland, American Society for Metals, 1954. pp.1034. $15. (*D*) *916*

MANUFACTURES

Wood

STAMM, A. J., *and* **HARRIS, E. E.**
Chemical processing of wood. New York, Chemical Publishing Co.; London, Thames & Hudson, 1954. pp.x,595, tables, bibliog. 63s.
(C) 917

MEREDITH, R., *ed.*
Mechanical properties of wood and paper; by W. W. Barkas, R. F. S. Kearman and H. F. Rance. Amsterdam, North-Holland Publishing Co., 1954. pp.298. 50s. *(C) 918*

Paper

DAY, F. T.
Paper converting and usage (mechanical materials handling), for the paper and allied trades, the printer, paper converter, stationer, boxmaker, the print buyer and paper user, the packager of all kinds of articles and products using paper and board conversions, the student, and newcomers to the paper and all trades associated therewith. Trade Journals, 1954. pp.316, front., illus., tables, diagrs. 20s. *(B) 919*

[See also *918*]

Textiles

BEEVERS, H.
Practical spinning on the Bradford system. National Trade P., 1954. pp.viii, 151, front., illus., tables, diagrs. 12s. 6d. *Textile machinery series; general ed. P. P. Townend.* *(B) 920*

TEXTILE RECORDER
Annual book of the year, 1954. Manchester, London, Harlequin P., 1954. pp.212, illus., tables, diagrs. 30s. *(B) 921*

Rubber

STERN, H. J.
Rubber: natural and synthetic; a comprehensive treatise on production and processing with a description of machinery and methods employed and the compounding ingredients used in manufactures. Maclaren, 1954. pp.xvii,491, front., illus., tables, diagrs., bibliog. 75s. *(B) 922*

BUILDING

ALUMINIUM DEVELOPMENT ASSOCIATION. Symposium on Aluminium in Building, 1953, London
Proceedings at a symposium on aluminium in building, held on June 30, 1953. Aluminium Development Association, 1954. pp.130, illus., tables, diagrs. 4s.
(C) 923

FIBRE BUILDING BOARD DEVELOPMENT ASSOCIATION
Fibre building boards. Fidor, 1954. pp.96, tables, diagrs. 5s. 'Useful and authoritative, especially on practical detailing.' *(B) 924*

GEOGRAPHY

MILLER, G. J., *and others*
Geography of North America; by G. J. Miller, A. E. Parkins and B. Hudgins. 3rd ed. New York, Wiley; London, C. & H., 1954. pp.xi,664, illus., tables, diagrs., bibliog. 60s. or $7.50. 'Post-war edition of a basic textbook including statistics for 1950 and a useful general reading list.' *(B) 925*

PUBLISHERS

The following abbreviations are used in the *Aslib Book-List:*

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C. & H.: Chapman and Hall

C.U.P.: Cambridge University Press

H.M.S.O.: Her Majesty's Stationery Office

L.G.: Longmans, Green

McG.-H.: McGraw-Hill

O. & B.: Oliver and Boyd

O.U.P.: Oxford University Press

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DECEMBER 1954
Nos. 926-1010

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PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved: over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months, have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included. Nor are British Standard Specifications (except bound volumes). Any inquiry regarding these should be made direct to the B.S.I., 2 Park Street, London, W.1.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols:

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

(*C*) Books of an advanced or specially technical character.

(*D*) Directories, dictionaries, handbooks, lists and catalogues, encyclopædias, year-books, and similar publications.

A title-page, classified table of contents, and index are issued with the last number of each volume.

The form of entry of references has been altered to comply with British Standard Specification 1629 : 1950.

ASLIB BOOK-LIST

Volume 19 *Number 12* *December 1954*

GENERAL SCIENCE

HALL, A. R.

The scientific revolution 1500–1800: the formation of the modern scientific attitude. L.G., 1954. pp.xvii,390, front., diagrs. bibliog. 21s. 'A well-written account of the development of the conceptions of the purpose and method of the scientist from the end of the scholastic period to the end of the eighteenth century.' *(A) 926*

SCIENTIFIC RESEARCH

DALE, *Sir* H. H.

An autumn gleaning: occasional lectures and addresses. Pergamon P., 1954. pp.x,225, table. 21s. '14 lectures and addresses, all originally written for the general scientist or the intelligent layman.' *(A) 927*

ORGANISATION FOR EUROPEAN ECONOMIC CO-OPERATION. Technical Assistance Missions Nos. 81-82-83

The organisation of applied research in Europe, the United States and Canada. Paris, O.E.E.C., 1954. 3 v. Tables, diagrs. 24s., 1300 fr. or $4.25. *(B) 928*

[See also *942* and *943*]

BIBLIOGRAPHY

BORTON, H., *and others, comps.*

A selected list of books and articles on Japan in English, French and German; comp. by H. Borton, S. Elisséeff, W. W. Lockwood and J. C. Pelzel. Rev. and enlarged. Cambridge, Mass., Harvard University P. for Harvard-Yenching Institute; [London, G. Cumberlege], 1954. pp.xiv,272. $5 or 40s. *(D) 929*

CURLE, R. H. P.

The Ray Society: a bibliographical history. Quaritch, 1954. pp.vi,101, front., plate. 10s. 6d. *(D) 930*

HOBSON, A. R. A.

The literature of bookbinding. C.U.P., for National Book League, 1954. pp.16. 3s. *The book, no. 2.* *(D) 931*

INSTITUTION OF NAVAL ARCHITECTS

Catalogue of the Scott collection of books, manuscripts, prints and drawings; comp. by B. M. Cooper. The Institution, 1954. pp.192, front., illus., facsims., diagrs. 42s. *(D) 932*

JEPSON, W. F.

A critical review of the world literature on the lepidopterous stalk borers of tropical graminaceous crops. Commonwealth Institute of Entomology, 1954. pp.vi,127, illus. 15s. *(C) 933*

UNITED STATES. Department of Commerce

Bibliography of books and published reports on gas turbines, jet propulsion and rocket power plants, January, 1950–December, 1953. Suppl. by E. F. Fiock and C. Halpern. Washington, U.S.G.P.O., 1954. pp.iv,110. 50¢. *(D) 934*

UNITED STATES. Library of Congress. Science Division

Scientific and technical serial publications, United States 1950–1953; prepared under the sponsorship of the National Science Foundation. Washington, Library of Congress, 1954. pp.ix,238. $1.25. *(D) 935*

LIBRARIANSHIP

AKERS, S. G.

Simple library cataloging. 4th ed. Chicago, American Library Association, 1954. pp.[5],250, tables. $5. *(A) 936*

LYNN, J. M.

An alternative classification for catholic books . . . for use with the Dewey decimal, Classification Décimale, Library of Congress classifications. 2nd ed., rev. by G. C. Peterson. Washington, Catholic University of America P., 1954. pp.508, tables. $10. *(D) 937*

TEMPLE, P.

Federal services to libraries; prepared for the Federal Relations Committee of the American Library Association, 1954. pp.xxvii,227. $3.50. *(B) 938*

DIRECTORIES AND YEARBOOKS

NORTHERN IRELAND. Ministry of Labour and National Insurance

Directory of principal organisations of employers and workpeople in Northern Ireland. 12th ed. Belfast, H.M.S.O., 1954. pp.viii,35. 1s. 9d. *(D) 939*

[See also *1006*]

PSYCHOLOGY

FESTINGER, L., *and* **KATZ, D.,** *eds.*

Research methods in the behavioural sciences. Staples P., 1954. pp.xi,660, tables, diagrs., bibliog. 50s. *(C) 940*

RYAN, T. A., *and* **SMITH, P. C.**

Principles of industrial psychology. New York, Ronald P., 1954. pp.534. $5.50. *(B) 941*

SOCIAL SCIENCES

[See *940*]

STATISTICS

DAVIES, O. L., *ed.*

Design and analysis of industrial experiments. O. & B., for Imperial Chemical Industries Ltd., 1954. pp.xiii,636, illus., tables, diagrs., bibliog. 63s. *(C) 942*

DAVIES, O. L., *ed.*

Statistical methods in research and production, with special reference to the chemical industry. 2nd ed. rev. O. & B., for Imperial Chemical Industries Ltd., 1954. pp.xii,292, tables, diagrs., bibliog. 28s. *(C) 943*

TINTNER, G.

Mathematics and statistics for economists. Constable, 1954. pp.xiv,363, tables, diagrs. 30s. 'A comprehensive textbook for the econometrician.' *(C) 944*

ECONOMICS

RUSSELL, *Sir* E. J.
World population and world food supplies. A. & U., 1954. pp.514, front., plates, illus., diagrs. 50s. *(A) 945*

SHAND, P. M.
Building: the evolution of an industry; with illus. by C. Mozley. Token Construction Co., 1954. pp.85, front., illus. 15s. 'A readable brief history of building from its dim origins.' *(A) 946*

WRIGHT, F. J.
The evolution of modern industrial organisation. Macdonald & Evans, 1954. pp.ix,190, tables, bibliog. 10s. 6d. 'Summarizes the main stream of industrial and social developments from Norman times to the setting up of the Atomic Energy Corporation.' *(B) 947*

[See also *939*, *944* and *992*]

EDUCATION

ASSOCIATION OF TEACHERS IN COLLEGES AND DEPARTMENTS OF EDUCATION
Handbook on training for teaching. Methuen, for the Association, 1954. pp.viii,408. 21s. *(D) 948*

GREEN, T. L.
Biology in the secondary modern school. Allman, 1954. pp.[7],215, tables, diagrs., bibliog. 12s. 6d. *(B) 949*

NIBLETT, W. R.
Education and the modern mind. Faber, 1954. pp.155, bibliog. 8s. 6d. *(A) 950*

SMITH, W. O. L., *ed.*
The school as a Christian community: [a symposium]. S.C.M. Press, 1954. pp.102. 4s. 6d. *(A) 951*

DICTIONARIES

[See *987*]

MATHEMATICS

CHEVALLEY, C. C. A. U.
The algebraic theory of spinors. New York, Columbia University P.; London, O.U.P., 1954. pp.viii,131, tables. 30s. or $3.75. *Columbia bicentennial editions and studies series.* *(C) 952*

PEDOE, J.
Advanced National Certificate mathematics. Vol. 2. English Universities P., 1954. pp.xvi,382, tables, diagrs. 20s. *Technical college series, ed. by W. E. Fisher.* *(B) 953*

[See also *973*]

PHYSICS

BUCHDAHL, H. A.
Optical aberration coefficients. O.U.P., 1954. pp.xx,336, tables. 50s. *(C) 954*

HAAR, D. ter
Elements of statistical mechanics. Constable, 1954. pp.xix,468, diagrs., bibliog. 45s. *(C) 955*

HUNTLEY, H. E.
Nuclear species. Macmillan, 1954. pp.xix,193, front., plates, illus., tables, diagrs., bibliog. 21s. *(B) 956*

JASWON, M. A.

The theory of cohesion: an outline of the cohesive properties of electrons in atoms, molecules and crystals; foreword by G. V. Raynor. Pergamon P., 1954. pp.viii,245, tables, diagrs. 37s. 6d. *Pergamon Science Series. Metal physics and physical metallurgy; an international series of monographs ed. by G. V. Raynor.* (*C*) *957*

LENIHAN, J. M. A.

Atomic energy and its applications. Pitman, 1954. pp.xiii,265, plates, illus., tables, diagrs., bibliog. 22s. 6d. *Pitman's applied physics series.* (*B*) *958*

SMITHSONIAN INSTITUTION

Smithsonian physical tables; prepared by W. E. Forsythe. 9th rev. ed. Washington, the Institution, 1954. pp.vi,827. $10. *Smithsonian miscellaneous collections, vol. 120.* (*D*) *959*

CHEMISTRY

BELCHER, R., *and* **GODBERT, A. L.**

Semi-micro quantitative organic analysis. New ed. L.G., 1954. pp.xi,222. tables, diagrs., bibliog. 21s. *Textbooks on modern analytical chemistry ed. by C. L. Wilson and R. Belcher.* 'Gives a clear concise account of, and practical instruction in, the techniques used.' (*B*) *960*

FREEPORT SULPHUR COMPANY

Sulphur data book; comp. by technical staff and ed. by W. N. Tuller. New York, McG.-H., 1954. pp.v,143, diagrs. $5. (*B*) *961*

SURREY, A. R.

Name reactions in organic chemistry. New York, Academic P.; London, Academic Books, 1954. pp.viii,192, illus. $4 or 32s. (*C*) *962*

MINERALOGY AND CRYSTALLOGRAPHY

TOMKEIEFF, S. I.

Coals and bitumens and related fossil carbonaceous substances; nomenclature and classification. Pergamon P., 1954. pp.[6],122, illus., tables, diagr. 17s. 6d. (*D*) *963*

GEOLOGY

RANKAMA, K.

Isotope geology. Pergamon P., 1954. pp.xvi,536, plates, tables, diagrs., bibliog. 75s. (*C*) *964*

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METEOROLOGY

BROOKS, C. E. P.

The English climate: with foreword by Sir D. Brunt. English Universities P., 1954. pp.x,213, illus., tables, diagrs. 12s. 6d. (*A*) *965*

BIOCHEMISTRY

COLSTON RESEARCH SOCIETY

Recent developments in cell physiology: proceedings of the seventh symposium of the Colston Research Society held in the University of Bristol, March 29th–April 1st, 1954: ed. by J. A. Kitching. Butterworth, 1954. pp.x,206, illus., tables, diagrs., bibliog. 40s. (*C*) *966*

BOTANY

McLUCKIE, J., *and* **McKEE, H. S.**

Australian and New Zealand botany. Sydney, Associated General Publications, 1954. pp.xxi,758, illus. 84s. (Australian). (*C*) *967*

PUBLIC HEALTH

[See *985*]

VETERINARY SCIENCE

HAMMOND, J., *ed.*

Progress in the physiology of farm animals. Vol. 1. Butterworth, 1954. pp.vii,392, illus., tables, diagrs., bibliog. 45s. (*B*) *968*

S, T. C., *and* **GLEISER, C. A.,** *eds.*

ary necropsy procedures. Philadelphia, Lippincott, 1954. pp.136, 7.50. 'Sponsored by the Armed Forces Institute of Pathology and merican Veterinary Medicine Association.' (*B*) *969*

NNELLS, R. A.

Animal pathology. 5th ed. Ames, Iowa State College P., 1954. pp.639, illus. $7. (*B*) *970*

ENGINEERING

MORLEY, A., *and* **HUGHES, E.**

Elementary engineering science. 3rd ed. L.G., 1954. pp.xi,308, illus.,tables, diagrs. 8s. (*B*) *971*

THORNE, F. W., *and* **WALSHAW, A. C.**

Engineering units and the Stroud convention: for students of applied mechanics and engineering science. London, Glasgow, Blackie, 1954. pp.vii, 29, tables, diagrs. 3s. 6d. (*B*) *972*

ER PLANCK, D. W., *and* **TEARE, B. R.**

Engineering analysis: an introduction to professional method. New York, Wiley; London, C. & H., 1954. pp.xii,344, tables, diagrs. 48s. or $6. (*B*) *973*

Testing Materials

REAT BRITAIN. National Physical Laboratory

Gauge making and measuring. H.M.S.O., 1954. pp.v,79, plate, tables, diagrs., bibliog. 3s. *Notes on applied science series, no. 5.* (*C*) *974*

LUG, H. P., *and* **ALEXANDER, L. E.**

X-ray diffraction procedures for polycrystalline and amorphous materials. New York, Wiley; London, C. & H., 1954. pp.xiii,716. $15 or 120s. (*C*) *975*

Mechanical

SCHWAMB, P., *and others*

Elements of mechanism; by P. Schwamb, A. L. Merrill, W. H. James. 6th ed. rev. by V. L. Doughtie. New York, Wiley; London, C. & H., [1954]. pp.xi,428, illus., tables, diagrs. 40s. or $8. (*B*) *976*

Steam

BIEZENO, C. B., *and* **GRAMMEL, R.**

Engineering dynamics: vol. III, Steam turbines. Trans. from German by E. F. Winter and H. A. Havemann. London, Glasgow, Blackie, 1954. pp.xiii,264, illus., tables, diagrs. 40s. (*C*) *977*

Electrical

ECK, E.

Lightning protection for electric systems. London, New York, McG.-H., 1954. pp.vii,313, illus., diagrs. 52s. or $6.50. *Westinghouse-McGraw-Hill engineering books for industry.* (*G*) *978*

LYON, W. V.

Transients analysis of alternating-current machinery: an application of the method of symmetrical components. New York, Wiley; London, C. & H., 1954. pp.x,310, illus., tables, diagrs., bibliog. 56s. or $7. (*B*) *979*

INTERNAL COMBUSTION

BIEZENO, C. B., *and* **GRAMMEL, R.**

Engineering dynamics: vol. IV, Internal-combustion engines. Trans. from German by M. P. White. London, Glasgow, Blackie, 1954. pp.[12],282, illus., tables, diagrs. 50s. *(C)* [illegible]

SANITARY

MITCHELL, G. E.

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A. & U.: Allen & Unwin

C. & H.: Chapman and Hall

C.U.P.: Cambridge University Press

H.M.S.O.: Her Majesty's Stationery Office

L.G.: Longmans, Green

McG.-H.: McGraw-Hill

O. & B.: Oliver and Boyd

O.U.P.: Oxford University Press

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